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3.17 RADIO AND ELECTRONICS (Cont)

- 3.17.2.3.7
 (Cont)

 avoid speaker locations that will cause acoustical feedback between microphones and speakers. Terminal strips at speaker locations shall be permanently coded to maintain cohrect speaker phasing. The speaker leads shall be similarly coded.
- 3.17.2.4 AIRBORNE SELECTIVE CALLING: Provisions for dual channel selective calling equipment shall be made in accordance with AIRINC Characteristic 531A
- 3.17.3 NAVIGATION EQUIPMENT:
- 3.17.3.1 AUTOMATIC NADIO COMPASS (ADF): Two ADF receivers shall be installed in the radio rack.
- ANTENNAS: Two flush type loop antennas shall be installed on the bottom surface of the fuselage. Two flush type antennas shall be located in the underside of the wing in the trailing edge. The ADF installation shall perform such that over-station operation shall effect pointer reversal as the aircraft intersects a cone not to exceed 10 degrees beyond a line extending above the station. Over-station reversal shall be confirmed by flight tests using a simultaneous range facility. A master deviation correction curve shall be established to which all airplanes under this contract will conform within an envelope of ± 3 degrees excepting on homing and homing reciprocal where conformance shall be obtained with landing gear fully extended or fully retracted. The operation of either ADF system shall not intered with extended in the other under any operating condition. Insofar as possible electrical wiring shall not be routed in the vicinity of the ADF sense antennas or loops.
- 3.17.3.1.2 CONTROL: Control for the ADF system shall be provided in the radio control panel. The heading data shall be connected to the RMI indicators.
- MARKER BEACON RECEIVER: The receiver shall be located in the radio rack. Two sets of marker lights 3 lights each) shall be installed on the instrument panel at shown in Figure 3.17-1. Controls for the marker beacon shall be located on the radio portion of the cockpit pedistal.
- 3.17.3.2.1 ANTENNA: The antenna shall be a semi-flush type located on the underside of the fuselage.

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REVISED BY	Rev. 11-15-57
3.17	RADIO AND RECORDINGS (Cont)
3.17.3.3	PROTRUMENT LANDING SYSTEM: Two glide slope receivers shall be installed in the radio rack. Localizer and glide slope channels shall be selected by the VIE navigation receiver control units. Two deviation indicators shall be installed one on the pilot's and one on the copilot's panel.
3.17.3.3.1	AMMINIA: The glide clope antenna shall be installed on the fuselage nose structure above the radar antenna scanner.
3.17.3.4	bual VHP MAVIGATION SYSTEM: Two VHP navigational receivers shall be installed in the radio rick. These receivers shall provide navigational facilities in the omni-range and localizer frequencies. Two power symplies and two RMI serve amplifiers, if required, shall be installed in the radio rack. The power supplies shall be wired for both de and ac operation.
3.17.3.4.1	CONTROLS. Frequency selector jointrals for the VHF inviga- tion system shall be installed in the radio control panel. Instrumentation output and instrumentation control circuits for VHF navigation, ADF and glide slope equipment shall be connected to the appropriate navigation indicators located on the instrument panels. Switching and interconnection shall be installed in accordance with the Buyer's require- ments. The installation shall be subject to Buyer approval at mock-up.
3.17.3.4.2	ANTENNA: One VHF navication intenna of the flush type shall be installed on the vertical stabilizer and designed for reception of the VHF navigation and runway localizer signals.
3.17.3.5	DISTANCE MEASURING LQUIPMENT TACAN: Provisions shall be made in the radio rack for dual DMET systems. A circuit breaker and fuse shall be installed for each.
3.17.3.5.1	the copilot's instrument panels for a 3-inch dust counter DMET indicator. Control wiring shall be installed from the VHF navigation No. 1 and VHF navigation No. 2 selector switches to the radio junction box for control of dual equipment.
3.17.3.5.2	ANTENNAS: Two DMET antennas shall be installed, one on top of fuselage and one on bottom of fuselage.

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3.17	HAPTO AND ELECTRONICE (Cont.)
3.17.3.3	INSTITUTE LANDIET STOP : "wo filde slove coivers shall be installed in the radio rack. Localizer and filde slove channels shall be selected by the VEV average received
(3.17-20)	one on the pilot's and one on the con lot's pure.
3.17.3.3.1 (3.17-21)	ANTI-What "he mide slope anterna small be manufed on the fuselage nose structure above the radar anterna scarrer.
3.17.3.4	DUAL VIR DAXIGAT UT 373 W: "Wo VIT averate out incervers shall be installed in the radio rack. here requires shall provide navigational facilities in the unti-race and local-izer frequencies. Two power supplies and two the radio amplifiers, if required, shall be installed in the radio rack. The power supplies shall be wind for both in an acoperation.
3.17.3.4.1	CUMPROLS: Prequency selector controls for the MAR paying- tion system reall be installed in the radio control purel. Instrumentation output and fustrumentation control errors.
(3.17-48)	Instrumentation output and instrumentation control excess for VHP advigation, APP and rlide slope equipment shall be connected to the appropriate naviration and intercess are income and intercess are shall be installed in accordance with the layer's requirements. The installation shall be subject to have approximate mack-up.
3.17.3.4.2	ATTIMA: the Ver navigation of tenna of the Clistotype small be installed on the vertical stabiliner and dos gred for feception of the INT maximation and rinwar localizer similar
3.17.3.5 (3.17-22)	DISTANCE TRANSPORT TO THE EXT (Provisions): I novisions about be rade in the radio rack for dual D.S. states. A c rest breaker and fuse shall be installed for pact.
(3.17-23)	TWO CATORS: Space small be provided in the pilot's and copilot's instrument panels for the principal control wiring shall be installed from the Talandin on in. I and VHM navigation No. 2 selector switches to the radio junction box for control of dual equipment.
3.17.3.5.2 (3.17-24)	ATTANIAS: Structural and space provision that be mule on the bottom of the fuselage for the attenuas.

CONVAIR PAGE 102 ANALYSIS REPORT ZD-22-003 334 00 31 PREPARED BY мобы 22 CHECKED BY DATE 9-20-56 REVISED BY Rev. 7-15-59 RADIO AND ELECTRONICS (Cont) 3.17 3.17.4 RADAR: WEATHER PEHETRATION ATREORNEY RADAR: A radar receiver/trans-3.17.4.1 mitter conforming to ARINC Characteristic No. 529 "C" Band shall be installed. Consideration shall be given to placing the receiver/transmitter and accessory unit in the radio rack. An antenna (30" diameter dish), capable of at least 180 degrees horizontal scanning, shall be installed within the radome. The radome shall be suitably hinged and supported to permit ready maintenance access. One rangeazimuth indicator conforming to ARINC Characteristic No. 529, with respect to size, shall be installed in the center slant panel of the instrument board in accordance with pedestal layout shown in Figure 3.17-1. A control panel in accordance with ARINC Characteristic No. 529 shall be installed as shown on pedestal layout, Figure 3.17-1. 84 3.17.4.2 Delated 17 3.17.4.3 Deleted HADAR SAFETY BEACON (PROVISIONS): Provisions shall be made for the installation of a dual ATC transponder beacon sys-3.17.4.4 196 tem. 3.17.4.4.1 CONTROL: One dual ATC transponder beacon control shall be installed in the ladio control panel. 3.17.4.4.2 ANTENNA: Two ATC antennas shall be installed at practical logations favorable to best radiation patterns in such a manner as to provide the best complementary pattern. 3.17.5 STATIC DISCHARGERS: Static discharger assemblies shall be installed in general accordance with ARINC Specification To. 306. 3.17.6 RADIO FREQUENCY PLACARD HOLDER: A lighted radio frequency placard holder shall be installed in the cockpit convenient for the observation of both pilots. The design and instal-lation of this placard holder shall be subject to cockpit mock-up approval. 3.18 ARMAMENT: Not required.

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- RADIO AND ELECTRONICS (Cont) 3.17
- to the speakers through a 70.7 volt system, with trans-3.17.2.3.7 formers at each speaker. A speaker shall be provided on each side of the cabin for at least every two rows of seats. Speakers shall have an equivalent cone diameter of 6-inches, with maximum acoustical baffling. The speakers shall be located below the overhead stowage racks on each side of the aisle. Speaker mounting shall be designed to facilitate replacement of the speaker and circuit connections without removal of utholstery or fixtures. Precautions shall be taken to woid speaker locations that will cause acoustical feedback between microphones and speakers. Terminal strips at speaker locations shall be permanently coded to maintain correct speaker phasing. The speaker leads shall be similarly coded.
- AIRBORNE SELECTIVE CALLING: Provisions for dual channel selective calling equipment shall be made in accordance 3.17.2.4 with ARING Characteristics 531A.
- AIRBORNE SELECTIVE CALLING CONTROL: A SEL-CAL panel shall be installed in the radio control panel. Audio to the SEL-3.17.2.4.1 CAL unit shall be selected by the selector switches on the panel. An indicator light for each channel shall be installed on the panel. Audio from #1 and #2 H.F. and #1 and #2 VHF communications may be selected by either SEL-CAL Channel. A single chime shall be installed and connected to each SEL-CAL intermittent channel. Provisions for "Reset" shall be accomplished on the SEL-CAL panel.
- 3.17.3 NATIGATION EQUIPMENT:
- Two ADF receivers shall be 3.17.3.1 MUTOMATIC RADIO COMPASS (ADF): installed in the radio rack.
- ANTENNAS: Two flush type loop antennas shall be installed 3.17.3.1.1 on the bottom surface of the fuselage. Two flush type antennas shall be located in the underside of the wing in the trailing edge. The ADF installation shall perform such that over-station operation shall effect pointer reversal as the aircraft intersects a cone not to exceed 10 degrees beyond a line extending above the station. Over-station reversal shall be confirmed by flight tests using a simultaneous range facility. A master deviation correction

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3.17 RADIO AND ELECTRONICS (Cont)

3.17.4 RADAR:

3.17.4.1

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17

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WHATHER PENETHATION AIRBORNE RADAR: A radar receiver/transmitter conforming to AMINO Characteristic No. 529 "C" Band shall be installed. Consideration shall be given to placing the receiver/transmitter and accessory unit in the radio rack. An antenna (30" diameter dish), capable of at least 180 degrees horizontal scanning, shall be installed within an adequately de-iced radome. The radome shall be suitably hinged and supported to permit ready maintenance access. One range-azimuth indicator conforming to ARINO Characteristic No. 529, with respect to size, shall be installed in the center slant panel of the instrument board in accordance with pedestal layout shown in Figure 3.17-1. A control panel in accordance with ARINO Characteristic No. 529 shall be installed as shown on pedestal layout, Figure 3.17-1.

- 48 | 3.17.4.2

Deleted

- 3.17.4.3 Deleted
- 3.17.4.4 RADAR SAFETY BENCON: in ATC transponder beacon shall be installed. Provisions thall be made for a second unit.

 Both installations shall conform to ARING Characteristic No. 532A.
- 3.17.4.4.1 CONTROL: one dual ATC transponder beacon control shall be installed in the radio control pane.
- 3.17.4.4.2 ANTENNA. Two ATC antennas shall be installed at practical locations favorable to best radiation patterns in such a manner as to provide the best complementary pattern.
- 3.17.5 STATE DISCHARGERS: Static discharger assemblies shall be installed in general accordance with ARTMC Specification No. 306.
- 3.17.6

 RADIO FREQUENCY PLACARD HOLDER: A lighted radio frequency placard holder shall be installed in the cockoit convenient for the observation of both pilots. The design and installation of this placard holder shall be subject to cockpit mock-up approval.
- 3.18 ARMANINT: Not required.

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		Rev. 11-15-57
	3.17 .	RADIO AND ELECTRONICS (Cont)
	3.17.4	WADAR:
÷8	3.17.4.1	WHATHER PENETHATION ATHEORNE RADAR: A radar receiver/transmitter conforming to A.I.E. Characteristic No. 529 "C" Band shall be installed. Consideration shall be given to placing the receiver/transmitter and accessor, unit in the radio rack. An antenna (30" diameter dish), capable of at least 180 degrees horizontal scanning, shall be installed within an adequately de-iced radome. The radome shall be suitably hinged and supported to permit ready maintenance access. One range-azimuth indicator conforming to ARINC Characteristic No. 529, with respect to size, shall be installed in the center slant panel of the instrument board in accordance with pedestal layout shown in Figure 3.17-1. A control panel in accordance with ARINC Characteristic No. 529 shall be installed as shown on pedestal layout, Figure 3.17-1.
48	3.17.4.2	Deleted
17	3.17.4.3	Deleted
	3.17.4.4	RADAR SAFETY PEACON: An ATC transponder beacon shall be installed. Arovisions shall be made for a second unit. Loth installations shall conform to AFINC Characteristic No. 532A.
48	3.17.4.4.1	CONTROL: One dual ATC transponder beacon control shall be provided in the radio control panel.
	3.17.4.4.2	ANTENNA: Two ATC antennas shall be installed at practical locations favorable to best radiation patterns in such a manner as to provide the best complementary pattern.
	3.17.5	STATIC DISCHARGERS: Static discharger assemblies shall be installed in general accordance with ARTNC Specification No. 306.
	3.17.6	RADIO FREQUENCY PLACARD HOLDER: A lighted radio frequency placard holder shall be installed in the cockoit convenient for the observation of both pilots. The design and installation of this placard holder shall be subject to cockpit mock-up approval.
	3.18	ARMAMENT: Not required.

C O N V A I R

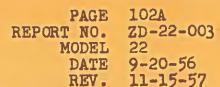
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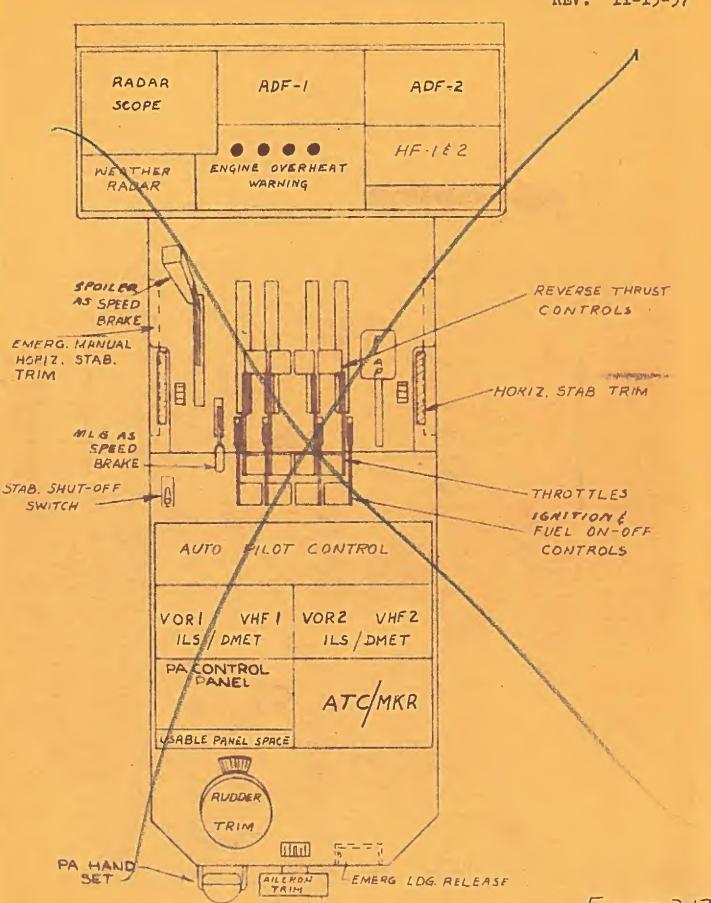
RADIO AND ELECTRONICS (Cort) 3.17 3.17.4 & PADAR: WEAR ER PRINTPACION AL MOUNT. TATAT: A mader receiver/transmitter conferming to Antill Characteristic 129 "2" aged shall be installed. Consideration shall contive to placing the receiver/transmitter and accessory with the run mack. An antenna (34" diameter dish), attained at least 180 degrees nor zontal scanning, shall be institled within an adequately artificed ratione. The alternative access. One marse-adamnth indicator conforming to a fill information of the institute of the center slads panel of the instrument board in accordance with perestal inyout slaws in form 3.17-1. A confine panel in accordance with A. E.S. Characterists 11. 529 shall be installed as show on referable lightly, force 1.17-1. 3.17.4.1 (3.17-10)TERRAT' WAR I'D TRAISON THE Space provisions for a terrain wart our transceiver scall by rule. 3.17.4.2 IDENTIFICATION RADAR (CPA): Space provisions shall be made for an identification radar trans-it or receiver. 3.17.4.3 RADAR SAPET" ZACO": An A"C transponder begans shall be installed. Provisions shall be made for a second with Both installations shall conform to A' C University a 3.17.4.4 (3.17-27)To. 532A. Commonly one ATC transporder beacon on the small be provided on the radio control panel and provisions shall 3.17.4.4.1 (3.17-25) ha made for a second. All I'M: "wo ATC antennus shall be instabled of mracilcal locations favorable to best radiation at locations in such a manner as to provide the bast complementary or term. 3.17.4.4.2 (3.17-29)(3.17-30)Yes shall be 3.17.5 STATIC DISCHARGENS: Static discharger assem

installed in general accordance with And C Sperification To. 306.

PADIC PROFER OF PLACARD TOLDER: A littled rate of equerev placard holder shall be installed in the cock, a converter for the observation of noth pilots. The test and stallation of this placard holder shall be safeet to one put 3.17.5 (3.17-50)mock-up approval.

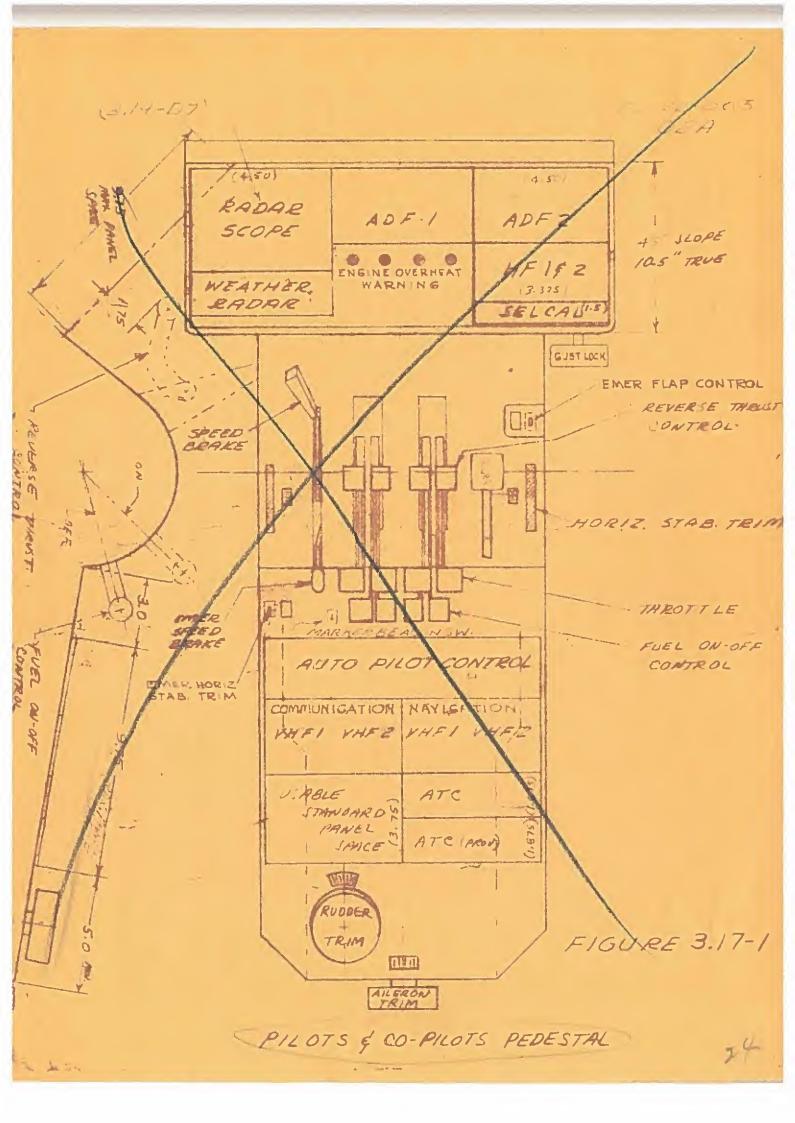
3.18 ARMA. Wir Wot required.

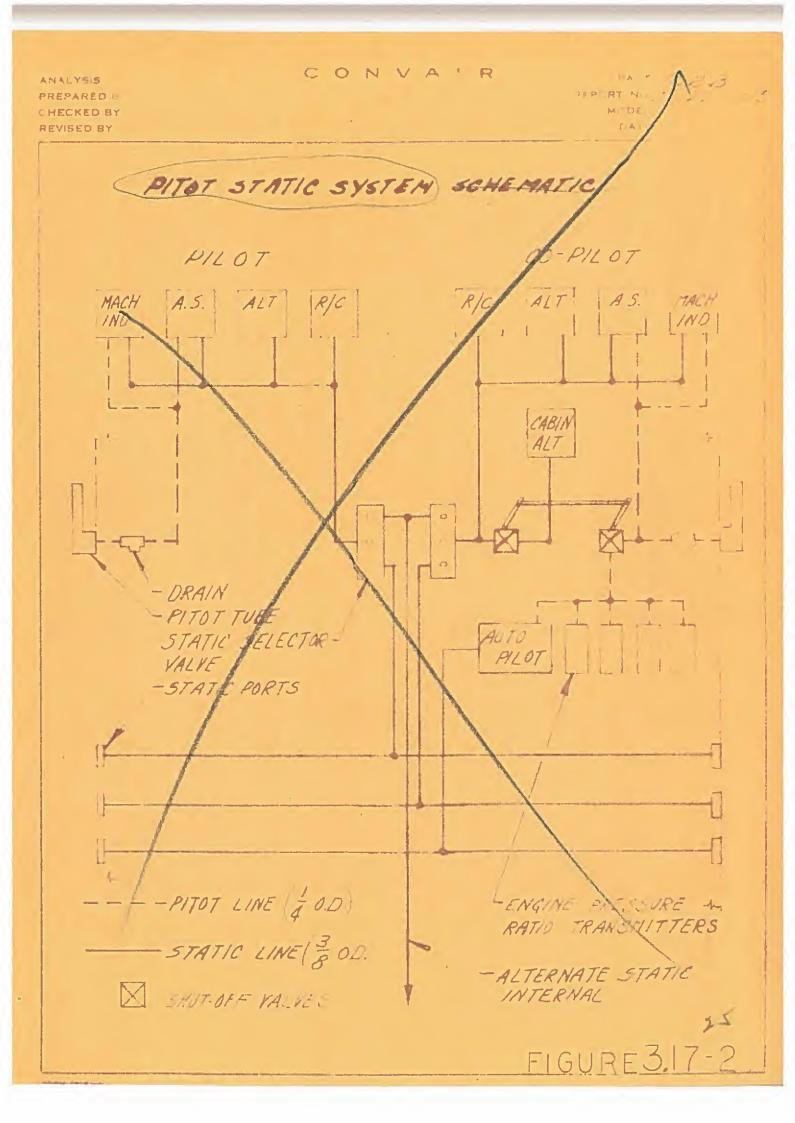




PILOTS & CO-PILOTS PEDESTAL

FIGURE 3.17-1





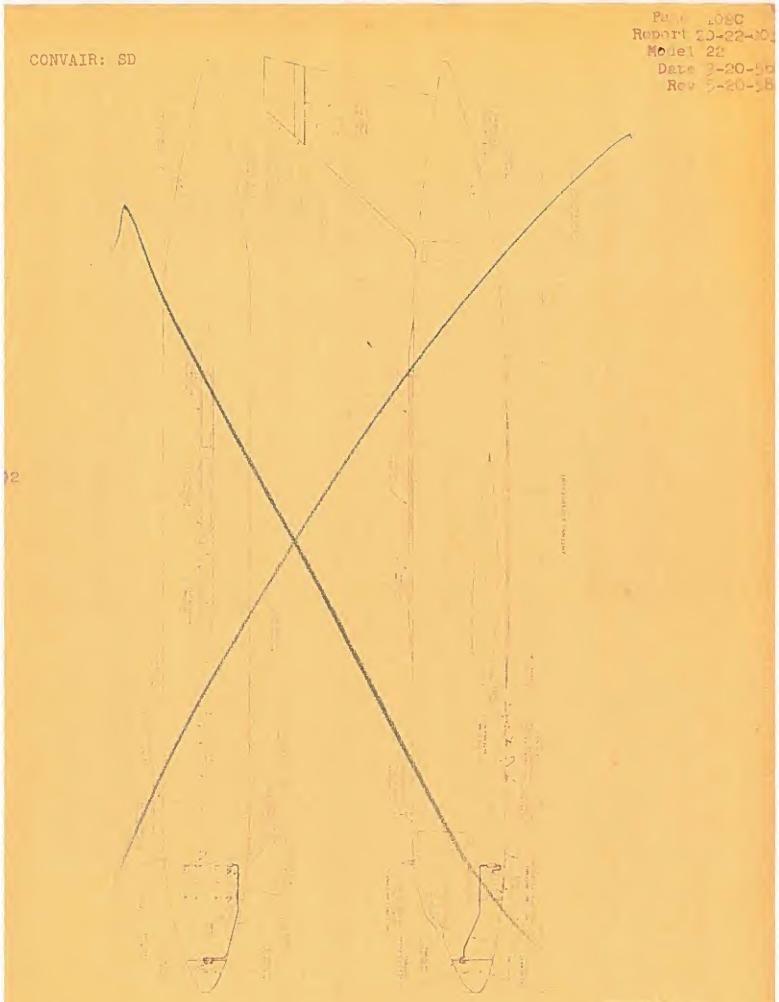


FIGURE 3.17-3

103 PREPARED BY SAN DIEGO REPORT NO. ZD-22-003 CHECKED BY MODEL REVISED BY DATE 9-20-56 Rev. 7-10-61 3.19 FURNISHINGS AND EQUIPMENT: 3.19.1 ACCOMMODATIONS FOR PERSONNEL: 3.19.1.1 INTERIOR: The interior shall include furnishings and equipment for 84 passengers, including 12/club area passen-138 gers, plus crew accommodations. In addition the interior shall be designed to permit quick conversion to either a mixed class configuration or a full coach interior as shown on Figure 1-3, and as further described herein. All of the configurations shalf include standard cabin windows at each seat row. The interior dealgn details, including furnishings, seats, finish specifications and color and trim, shall be subject to Buyer approval and mockup. 3.19.1.1.1 SEATS: All seats small be equipped with vinyl-foam or equivalent cushions and shall be designed, wherever practicable, in accordance with Guggenheim Foundation and NACA Crash Research. Seat attaching fittings and seat carry-through structure shall be of ductile material so that shock loads, within design limits, shall not dislodge seats. Wherever fabrics are used for seat upholstery, they shall be applied in slip cover form. PILOT'S COPILOT'S AND FLIGHT ENGINEER'S SEATS: Seats shall be provided for the pilot, copilot and flight engi-3.19.1.1.2 neer, which shall have a minimum adjustment of five inches vertically, and seven inches fore and aft. The seats shall be removable and the pilot's and copilot's seats shall be interchangeable between airplanes and stations. The seat backs, cushions and arm rests shall be deeply upholstered and covered with a material as specified by the Interior Finish Specification. The pilot s, copilot's and flight engineer's seats shall have provisions only for headrest. Seat tracks and/or rollers shall be designed to provide maintenance adjustment to minimize clearance between tracks and rollers. Seat tracks shall have a maximum practicable tread to minimize lateral motion. *Installation of pilot's, copilot's and flight engineer's seat shall be fully interchangeable with seats presently 28 installed in Ships 1 through 13. Seat design will incorporate all of the production changes in effect as of 1 September 1961.

*Effective Ships 14 and on.

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ANALYSIS

CONVAIR PAGE 103 ANALYSIS REPORT NO ZD-22-003 SAN SHEGE PREPARED BY MODEL 22 CHECKED BY DATE 9-20-50 BEVISED BY REV. 1-12-59 FURNISHINGS AND EQUIPMENT: 3.19 3.19.1 ACCOMMODATIONS FOR PERSONNEL: INTERIOR: The interior shall include furnishings and 3.19\1.1 equipment for 84 passengers, including 12 glub area passergers, plus crew accommodations. In addition the interior shall be designed to permit quick conversion to either a mixed class configuration or a full emach interior as shown on Figure 1-3, and as further described herein. All of the configurations shall include standard cause windows at each seat row. The interior design details, including furnishings, seats, fluish specifications and color and trim, shall be subject to Ruyer approval and mockets. SEATS. All seats shall be equipped with vinyl-foam or equivalent cushions and shall be designed, wherever prac-3.19.1.1.1 ticable, in accordance with Guggenheim Foundation and NACA Crash Research. Seaf attaching fittings and seat carrythrough structure shall be of ductile material so that shock loads within design limits, shall not dislodge seats. Wherever fabrics are used for seat upholstery, they shall be applied in lip cover form. PILOT'S COPILOT'S AND FLIGHT ENGINEER'S SEATS: Seats shall be provided for the pilot, copilot and flight engineer, which shall/have a minimum adjustment of five inches verti-3.19.1.1.2 cally, and/seven inches fore and aft. The seats shall be removable and the pilot's and copilot's seats shall be interchangeable between airplanes and stations. The seat backs, sushions and arm lests shall be deeply upholstered and covered with a material as specified by the Interior Finish Specification. The hilet's, copilot's and flight engineer's seats shall have provisions only for headrest. Seat tracks and/or rollers shall be designed to provide maintenance adjustment to minimize clearance between tracks

and rollers. Seat tracks shall have a maximum practicable

fread to minimize lateral motion.

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C O N V A I R A DIVISION OF GENERAL DYNAMICS COPPINAL IN BAN DIEGO

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3.19

FURNISHINGS AND EQUIPMENT:

3.19.

ACCOMMODATIONS FOR PERSONNEL:

3.19.1.1

INTERIOR: The interior shall include furnishings and equipment for 80 passengers plus a four place lounge and crew accommodations as shown on Figure 1-2. In addition the interior shall be designed to permit quick conversion to either a mixed class configuration or a full coach interior as shown on Figure 1-3, and as further described herein.

(3.19-D1)

All of the configurations shall include standard cabin windows at each seat row.

The interior design details, including furnishings, seats, finish specifications and color and trim, shall be subject to Buyer approval and mockup.

3.19.1.1.1

(3.19-D2)

SEATS: ill seats shall be equipped with vinyl-foam or equivalent cyshions and shall be designed, wherever practicable, in accordance with Guggenheim Foundation and NACA Crash Research. Seat attaching fittings and seat carrythrough structure shall be of ductile material so that shock loads, within design limits.

(3.19-10)

through structure shall be of ductile material so that shock loads, within design limits, shall not dislodge seats. Wherever fabrics are used for seat upholstery, they shall be applied in slip lover form.

3.19.1.1.2

NAME OF A

PILOT'S COPILOT'S AND FLIGHT ENGINEER'S SEATS: Beats shall be provided for the pilot, copilot and flight engineer, which shall have a minimum adjustment of 5 inches vertically, and 7 inches fore and at. The seats shall be removable and the pilot's and copilot's teats shall be interchangeable between airplanes and stations. The seat backs, cushions and arm rests shall be deeply upholstered and covered with an aterial as specified by the interior Finish Specification. The pilot's, copilot's and flight engineer's seats or rollers shall be designed to provide maintenance adjustment to minimize clearance between tracks and rollers. Seat tracks shall have a maximum practicible tread to minimize lateral motion

CONVALR ANALYSIS PAGE 104 PREPARÉD BY 11ET SIT NO. ZD-22-003 in 2, 200 CHECKED BY MODEL 22 DATE 9-20-56 Rev. 7-10-61 3.19 FURNISHINGS AND EQUIPMENT (Cont) OBSERVER'S SEAT: An upholstered auxiliary seat with backrest and arms, shall be installed aft of the pilot for use of an 3.19.1.1.3 227 observer. 3.19.1.1.3.1 FIFTH COCKPIT SEAT (Provisions only): Structural provisions 21A for a fifth seat shall be made aft of the observer. CABIN ATTENDANTS' SEATS: Three upholstered seats and back-3.19.1.1.4 rests shall be provided for cabin attendants; one single aft facing seat on aft face of forward left hand coat compartment, 29 one aft facing west on left hand cabin aft bulkhead and one forward facing seat on inboard face of aft left hand coat compartment. The seats shall be of the folding-type and shall be capable of being stowed clear of the aisle when not in use. The seats shall be located in accordance with the interior plans (Figure 1-2)1 3.19.1.1.5 CLUB AREA SEATS: A 12-place club area shall be provided aft of the forward main entrance door, with seat assemblies ar-138 ranged as follows: Left hand double seat facing aft. Right hand double spat facing aft. C. Right hand double seat facing forward. Left hand quadruple beat assembly. Right hand double seat facing inboard. 3.19.1.1.6 PASSENGER SEATS: The passenger seat arrangement shall be as shown on Figures 1-2 and 1-3. Except for the club area seats, which shall have fixed backs, all passenger seats shall have 99A 227 reclinable backs. All passanger seats shall be equipped with removable or folding center armrests. Equipment shall not be located or stowed under the passenger seats, however, a minimum of 10 x 15 x 24 inches shall be provided under the seats, exclusive of club area seats, for passenger package stowage. Integral folding food tray tables located in each seat back (except for club area seats) literature pockets, and stowage space for air sickness bags shall be provided. Seat bottom cushions shall be removable and usable as life preservers. To assist in this regard, a strap shall be sewed on each of two opposite edges. Hole provisions on seat base shall be made for the future incorporation of optional two-position tubular foot rest. The following shall be provided: Wide outside arm and hydraulic recline locks. *The integral folding food trays will incorporate the latest),28 improved production latches. The first production models of the club area and passenger seat plug-in food trays will be submitted for Buyer approval. *Effective Ships 14 and on.

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CONVAIR

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3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.1.1.6.1 SEAT BACK MOVEMENT: Each reclining seat shall be designed so that pressure applied on the aft aide of the seat-back will override the recline control lock without additional manual operation, and fold the seat-back forward to its normal upright position. This pressure on the seat-back shall not exceed 25 pounds. The seat-back shall fold further forward to approximately 30 degrees forward of the normal upright position (as defined below) without removal of the arm rests, by applying a load of not less than 30 pounds pressure or more than 35 pounds pressure on the aft side of the seat-back. Seat-back positions shall be as

Normal upright: 15 degrees aft of vertical

Recline:

follows:

38 degrees aft of vertical

- 3.19.1.1.6.2 PASSENGER SEAF TABLES (Effective Ships 14 and on): Plugin and integral folding food tables shall be prototyped and submitted for Buyer approval.
- 3.19.1.1.7 SAFETY RELTS (Effective Ships I through 13): Buyer approved commercial-type safety belts shall be provided on all seat accommodations. In addition, each crew member's (including observer's) and cabin attendant seats shall be equipped with shoulder harnesses. Inertia reels for the shoulder harness shall be provided for the pilot, copilot and flight engineer.
- 3.19.1.1.7 SAFETY BELTS (Effective Ships 14 and on): Buyer approved commercial-type safety belts shall be provided on all seat accommodations. In addition, each crew member's (including observer's) and cabin attendant seats shall be equipped with shoulder harnesses. Inertia reels for the shoulder harness shall be provided for the pilot, copilot and flight engineer. All passenger and cabin attendants safety belt tips shall be chrome finished steel.
- 3.19.1/1.7.1 CRASH ENERGY ABSORBER: All cabin passenger seats shall be equipped with crash energy absorbers installed at each safety belt attachment point.
- 3.19.1.1.8 CONVERTIBILITY: The standard 84-passenger configuration (including 12 club area passengers) shall include full provisions to permit quick conversion to a full range of mixed class interiors utilizing the two coat compartments shown in Figure 1-3 as dividers. These coat compartments shall

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3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.1.1.3 OBSERVER'S SEAT: An upholstered auxiliary seat with backrest and arms, shall be installed aft of the pilot for use of an observer.

3.19.1.1.3.1 RIFTH COCKPIT SEAT (Provisions only): Structural provisions for a fifth seat shall be made aft of the observer.

3.19.1.1.4 CABIN ATTENDANTS' SEATS: Three upholstered seats and backrests shall be provided for cabin attendants; one single aft facing seat on aft face of forward left hand coat compartment, one aft facing seat on left hand cabin aft bulkhead and one forward facing seat on inboard face of aft left hand coat compartment. The seats shall be of the folding-type and shall be capable of being stowed clear of the aisle when not in use. The seats shall be located in accordance with the interior plans (Figure 1-2).

3.19.1.1.5 CLUB AREA SEATS: A 12-place club area shall be provided aft of the followerd main entrance door, with seat assemblies arranged as follows:

- a. Left hand double seat facing aft.b. Right hand double seat facing aft.
- c. Right hard double seat facing forward.
- d. Left hand quadruple seat assembly.
- e. Right hand double seat facing inboard.

PASSENGER SEATS: The passenger seat arrangement shall be as shown on Figures 1-2 and 1-3. Except for the club area seats, which shall have fixed backs, all passenger seats shall have reclinable backs. All passenger seats shall be equipped with removable or folding center armrests. Equipment shall not be located or stowed under the passenger seats, however, a minimum of 10 x 15 x 24 inches shall be provided under the seats, exclusive of club area seats, for passenger package stowage. Integral folding food tray tables located in each seat back (except for club area seats) literature pockets, and stowage space for air sickness bags shall be provided. Seat bottom cushions shall be removable and usable as life preservers. To assist in this regard, a strap shall be sewed on each of two opposite edges. Hole provisions on seat base shall be made for the fiture incorporation of optional two-position tubular foot rest. The following shall be provided: Wide outside arms and hydraulic recline locks.

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3.19.1.1.6

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3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.1.1.6.1

SEAT BACK MOVEMENT Each reclining seat shall be designed so that pressure applied on the aft side of the seat-back will override the recline control lock without additional manual operation, and fold the seat-back forward to its normal upright position. This pressure on the seat-back shall not exceed 25 pounds. The seat-back shall fold further forward to approximately 30 degrees forward of the normal upright position (as defined below) without removal of the arm rests, by applying a load of not less than 30 pounds pressure or more than 35 pounds pressure on the aft side of the seat-back. Seat-back positions shall be as follows:

Normal Upright:

Recline:

15 degrees aft of vertical

38 degrees aft of vertical

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3.19 FURNISHINGS AND EQUIPMENT (Cont)

- 3.19.1.1.3 OESERVER'S SEAT: An upholstered auxiliary seat with backrest and arms, shall be installed aft of the pilot for use of an observer.
- 3.19.1.1.4 CABIN ATTENDANT'S SEATS: Three upholstered seats and backrests shall be provided for cabin attendants; one single
 aft facing seat on aft face of forward left hand coat compartment, one aft facing seat on left hand cabin aft bulkhead and one forward facing seat on inboard face of aft
 left hand coat compartment. The seats shall be of the folding-type and shall be capable of being stowed clear of the
 aisle when not in use. The seats shall be located in accordance with the interior plans (Figure 1-2).
- 3.19.1.1.5 CLUB AREA SEATS: A 12-place club area shall be provided aft of the forward main entrance door, with seat assemblies arranged as follows:
 - a. Left hand double-seat facing aft b. Right hand double-seat facing aft
 - c. Right hand double-seat facing forward
 - d. Left hand quadruple-seat assembly e. Right hand double-seat facing inboard
- PASSENGER SEATS: The passenger seat arrangement shall be 3.19.1.1.6 as shown on Figures 1-2 and 1-3. Except for the club area seats, which shall have fixed backs, all passenger seats shall have reclinable backs. All passenger seats shall be equipped with removable or folding center ammrests. Equipment shall not be located or stowed under the passenger seats, however, a minimum of 10 x 15 x 24 inches shall be provided under the seats, exclusive of club area seats, for passenger package stowage. Integral folding food tray tables located in each seat back (except for club area seats) literature pockets, and stowage space for air sickness bags shall be provided. Seat bottom cushions shall be removable and usable as life preservers. To assist in this regard, a strap shall be sewed on each of two opposite edges. Hole provisions on seat base shall be made for the future incorporation of optional two-position tubular foot rest. The following shall be provided: wide outside arms and hydraulic recline locks.

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FURNISH AND BUSINEST (C) _,13

- 3.12.1.1.3 - QLUERVER'S SFAT: A sold an aut law, see soat, attito and aims, shall be properly and and the title N. (6 (1) 21 DUCCE 65.
- CASTI ATTE DANT'S SEALS: Three quelsored seats at the real of the tast to provide for tasts at the nounts; one compared forward lett and tast can part ment, bone art facing seat on left whit tasts all all entering left, shad cast output ment. The seats shall be of attacting the open ment. The seats shall be of the last in all entering the world in as a corrange with the interior plans (figure 1-2). 3.1, 1.1.4
- GIU AMEA SEATS: 12-place club area shall be pro. Jed aft of the forwal American range from, y to sent assemble: arranged as follows: 3.1.1.1.5

 - Left hand louble-test facing after high hand double-test facing after high four letters for him for which here hand quadruple-test assembly those I double-seat assembly in oar I Ellin.
- PASSE GEA SEALS: The passenger seat the anterest shall be as shown on Flythes 1-2 and to of Appendix to. Except for the earth area stats, which shall have rived across All passenger seats shall rave real hatte tacks. All passenger seats shall be equipped with resevable of foliar center armests. Equipment shall not to a located on showed that the passenger seats, novever, administration of 10 , 15 % and the passenger seats, novever, administration of 10 , 15 % and area seats, for passenger package atomage. Integral located and food tray tables located at each seat tack (encept infectly area and forward main raum shats), literature posheds, and stoward space for all stokess that a seat tack (encept infectly area and forward main raum shats), literature posheds, and stoward space for all stokess that a seat tack. 3.11.1.1.1 and sloware space for all slowers tall he removed and sloware space for all be removed and usade as life preservers. To assist in this relate, a structural sevent in case of two opposite edges. Tole provisions or seat lase 2 all be made for the future incorporation of optional two-position tooular foot rest. The Pollowing shall c provided: whie outside arms and paraulto reclaim locks:

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FURNISHINGS AND TQUIPLENT (Cont) 3.19

- UBS AVIA'S S.AT: A folding auxiliary seat with upholstered 3.19.1.1.3 seat, backrest and arms, shall be proxided aft of the pilo for use of an observer.
- casin Ar. NDAN. 8 Shars: Three upholstered seats and makerests shall be provided for cabin attendants; one since aft facing seat on aft face of forward left hand co t compartment, one aft facing seat on left hand cabin aft pullinead and one forward facing seat on intoard face of aft left hand cost compartment. The seats shall be of the folding type and shall be of the seats shall be of the 3.19.1.1.4 folding type and shall be capable of being stowed clear of the aisle when not in use. The seats shall be located in accordance with the interior plans (Figure 1-2).
- NOTING! Shalls: A four-place lounge shall be provided with ficing seats located aft of the forward main entrance door. 3.19.1.1.5
- The seats shall have fixed backs and shall be deeply upholatered and luxurious in appearance. The surrounding
 walls, ceilings and partitions shall reflect an integrated,
 pleasing appearance.

 PAISINGIA SIMIS: The passenger seat arrangement shall be
 as shown on Figures 1-2 and I of Appendix II. Except for
 the lounge type seats, which shall have fixed backs, all
 passenger seats shall have reclinable backs. All passenger
 seats shall be equipped with removable or folding center
 armrests. Equipment shall not be located or stowed under
 the passenger seats, however, a minimum of 10 x 17 x 24
 inches shall be provided under the seats, exclusive of 3.19.1.1.6 inches shall be provided under the seats, exclusive of lounge seats, for passenger package stowage. In egral folding food tray tables located in each seat back (except for lounge and forward lain cabin sects), literature pockets, and stowage space for air sickness bags shall be provided. Seat lottom cushions shall be removable and visable as life preservers. So assist in this regard, strap shall be sewed on each of two opposite edges.
- So that pressure applied on the aft side of the sect-tack will override the recline control lock, without additional manual operation, and fold the seat-back forward to its 3.19.1.1.0.1/ normal vertical position. This pressure on the sect-back shall not exceed 30 pounds. The seat-back shall be normitted to fold further forward to approximately a horizon l position on the seat cushion by applying a load of not less than 50 pounds pressure or more than 50 pounds pressure on the aft side of the seat-back. The seat-backs shall be permitted to fold forward without removal of ara-resis. Seat-back positions shall be as follows:

Normal Vertical Recline

12° aft of vertical 38° aft of vortical

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3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.1.1.3 OBSERVER'S SEAT: A folding auxiliary seat with upholstered seat, backrest and arms, shall be provided aft of the pilot for use of an observer.

3.19.1.24 CABIN ATTENDANT'S SEATS: Three upholstered seats and backrests shall be provided for cabin attendants; one in the forward entrance area and two in the aft vestibule area. The seats shall be of the folding type and shall be capable of being stowed clear of the aisle when not in use. The seats shall be located in accordance with the interior plans (3.19-D3)

LOUNCE SEATS: A four place lounge shall be provided with facing leats located aft of the forward main entrance door. 3.19.1.1.5 The seats shall have fixed backs and shall be deeply up-holstered and luminious in appearance. The surrounding walls, ceilings and partitions shall reflect an integrated,

pleasing appearance.

(Figure 1-2).

3.19.1.1.6

PASSENGER SEATS. The passenger seat arrangement shall be as shown on figures 1-2 and I of Appendix II. Except for the lounge type seats, which shall have fixed backs, all passenger seats shall have reclinable backs. All passenger seats shall be equipped with removable or folding center armrests. Equipment shall not be located or stowed under the passenger seats, however, a minimum of 10 x 15 x 24 inches shall be provided under the seats, exclusive of loung seats, for passenger package stowage. Integral folding food tray tables located in each seat back (except for lounge and forward main cubin seats), literature pockets and stowage space for air sickness bags shall be provided. Seat bottom cushions shall be removable and usable as life preservers. To assist in this regard, a strap shall be sewed on each of two opposite edges. (3.19-D4)(3.19-68)

sewed on each of two opposite edge.

SEAT BACK MOVEMENT: Each reclining seat shall be designed so that pressure applied on the aft side of the seat-back will override the recline control lock, without additional manual operation, and fold the seat-back forward to its normal vertical position. This pressure on the seat-back shall not exceed 30 pounds. The seat-back shall be per-3.19.1.1.6.1 shall not exceed 30 pounds. The seat-back shall be permitted to fold further forward to approximately a porizontal position on the seat cushion by applying a load of not less than 50 pounds pressure or more than 60 pounds pressure on the aft side of the seat-back. The seat-backs shall be permitted to fold forward without removal of arm-rests. Seat-back positions shall be as follows:

(3.19-17)Normal Vertical 12° aft of vertical 38° aft of vertical Recline

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be designed to utilize the standard floor seat attach points and thus may be placed in any of the rows between rows six and 15 inclusive, excluding emergency hatch areas, in the main cabin section. Each of the 22 seat rows shall incorporate standard cabin windows, and each row aft of the club area shall have reading lights and individual air outlets for five-abreast seating as shown in the coach configuration of standard seats or coach seats. Provisions shall be made for installation of a left and right hand hat rack in the club area for use with four and five-abreast seating arrangements.

3.19.1.1.9

GENERAL: Special attention in detail design shall be accorded crash protection of occupants. All protuberances (such as seat backs, control handles, etc.) which could be contacted by an occupant normally restrained in his seat shall be padded with "Ensolite" or equivalent energy absorbing material. Reading lights, call buttons, assist handles, etc., shall be mounted flush or so located as not to be passenger or crew hazards. Use of sharp corners in buffets, tables, lavatories, etc., shall be avoided. Non-splintering materials shall be used.

3.19.2

MISCELLANEOUS EQUIPMENT:

3.19.2.1

BUFFET: Two buffets shall be provided, one located forward and one aft as shown on Figures 1-2 and 1-3. Each of the buffets shall consist of two units as shown on Figures 3.19-5, 3.19-6 and 3.19-7. The units shall be identified as No. 1, No. 2, No. 3 and No. 4, units 2 and 3 shall be alike for interchangeability. No. 1 unit shall accommodate nine tray carriers, No. 4 unit shall be located forward of No. 3/unit on RH side forward of rear service door facing aft, and shall accommodate ten tray arriers. The buffet installation shall be designed to the loads as specified in Paragraph 3.4.4. These loads shall also apply to buffet insert retention. Solid overhead-type doors shall be installed over ovens and tray carriers of units 1, 2 and 3. Hinged side stowing doors shall be provided in No. 4 unit as as follows: (a) one pair for each lower two levels on aft side, (b) a single door for the three inboard tray carriers and (c) a single door for the upper aft tray carrier. All doors shall be designed to utilize easily replaceable commercial material and to sustain a 3g ultimate load from loaded ovens or tray carriers. The overhead doors over the ovens and tray carriers shall be designed to serve as auxiliary serving counters. All loaded ovens and tray carriers

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CONVAIR PAGE 105 ANALYSIS REPORT NO. ZD-30-005 SAN DIEGO PREPARED BY MODEL 30 CHECKED BY DATE REVISED BY Rev. 7-27-59 (Cont) FURNISHINGS AND EQUIPMENT 3.19 3.19.2.7.12 CHART TABLES: A map table shall be provided on both the pilot's and copilot's consoles. The map tables shall be fabricated of suitable lightweight material. When in use, the /61 tables shall cover their respective console areas over the flight kit stowage area. Stowage provisions shall be made. MISCELLANEOUS STOWAGE: A miscellaneous stowage compartment 3.19.2.7.13 shall be provided on the aft face of the forward right hand passenger bulkhead. The compartment shall be equipped with a hinged door on the inboard side and shall incorporate a shelf approximately 18/inches above the floor of the bin. 3.19.2.7.14 MAP CASE: A sectional map case shall be incorporated into a readily removable guard over the oxygen bottles. The oxygen gages shall remain visible. CREW IDENTIFICATION NAMEPLATE HOLDER: A customer furnished 3.19.2.7.15 crew identification nameplate holder shall be provided on the /61 aft face of the forward left hand coat compartment at eye level. TIME TABLE STOWAGE: Stowage space for airline time tables shall be provided on the inboard side of the bulkhead stowage 3.19.2.7.16 /61 bin located on the forward right hand side of the passenger compartment. FURNISHINGS: B.19.3. GENERAL ARRANGEMENT: The standard fuselage interior general 3.19.3.1 arrangement is shown in the illustration herein. Interior trim fabrics, upholstering, floor coverings, finishes and color scheme shall be as described in Convair Interior Finish Specification. '(Reference 3.2.4.) Weights for these materials are shown in Appendix I-C. 3.19.3.1.1 PASSENGER COMPARTMENT: The main passenger compartment shall be a minimum of 24 inches wide between arm rests in the standard configuration. The minimum clear ceiling height in the main cabin shall be approximately 85 inches at the airplane centerline except at the stowage box and entry areas. FLOOR COVERING: Floor covering throughout the aircraft shall be as specified by the Interior Finish Specification. Floor covering shall be installed to restrict creeping and curling. 3.19.3.2 The floor covering in the passenger area shall be retained by methods which permit quick and easy replacement of covering and which do not require tools. Mechanical fasteners and metal hold-down strips and moldings shall be avoided. eration shall be given to the static electricity characteristics of the carpet installed. Any difference in the cost and weight of the carpet installed which results from a choice of carpet other than that specified in Appendix I-C shall be the subject of further negotiation. The floor covering in each builet and entrance area shall be readily removable, pile type carpeting:

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3.19.1.1.7

SAFETY BELTS: Buyer approved commercial type safety belts shall be provided on all seat accommodations. In addition, each crew member's (including observer's) and cabin attendant seats shall be equipped with shoulder harnesses. Inertia reels for the shoulder harness shall be provided for the pilot, copilot and flight engineer.

3.19.1.1.8

convertibility: The standard 80 passenger configuration shall include full provisions to permit quick conversion to a full range of mixed class interiors utilizing the two coat rooms shown in Figure 1-3 as dividers. These coat compartments shall be designed so as to utilize the standard floor seat attach points and thus may be placed in any of the rows between rows five and fourteen inclusive excluding emergency hatch areas in the main cabin section. Each of the twenty-one seat rows shall incorporate standard cabin windows, reading lights, and individual air outlets for five abreast seating as shown in the coach configuration in Figure 1-3 and shall likewise permit the installation of standard seats or coach seats without restriction or employment of non-standard seats.

3.19.1.1.9

GENERAL: Special attention in detail design shall be accorded crash protection of occupants. All protuberances (such as seat-backs, control handles, etc.) which could be contacted by an occupant normally restrained in his seat shall be padded with "Ensolite" or equivalent energy absorbing material. Reading lights, call buttons, assist handles, etc., shall be mounted flush or so located as not to be passenger or crew hazards. Use of sharp corners in buffets, tables, lavatories, etc., shall be avoided. Nonsplintering materials shall be used.

3.19.2

MISCELLANEOUS EQUIPMENT:

15日 3.19.2.1

BUFFIT: Two buffets shall be provided, one located forward and one aft as shown on Figures 1-2 and 1-3. Each of the buffets shall consist of two units as shown on Figures 3-19-5, 3.19-6 and 3.19-7. The units shall be identified as No. 1, No. 2, No. 3 and No. 4; units 2 and 3 shall be alike for interchangeability. No. 1 unit shall accommodate nine tray carriers. No. 4 unit shall be located forward of No. 3 unit on RH side forward of rear service door facing aft, and shall accommodate ten tray carriers. The buffet installation shall be designed to the loads as specified in Paragraph 3.4.4. These loads shall also apply to buffet insert retention. Solid overhead type doors shall be installed over ovens and tray carriers of units 1, 2 and 3. Hinged side stowing doors shall be provided in No. 4 unit

CONVAIR 'A . 105 ANALYSIS REPORT NO ZD-22-003 AN E PREPARED BY MODE 22 TE 9-20-56 CHECKED BY REVISED BY Rev. 7-15-59 FURNISHEIGS AND EQUIPMENT (Cont) 3.19 3.19.1.1.7 SAFETY BELIS: Buyer approved commercial-type safety belts shall be provided on all seat accommodations. In addition, each crew member's (including observer's) and cabin attendant seats shall be equipped with shoulder harnesses. Inertia reels for the shoulder harmess shall be provided for the pilot, copilot and flight engineer. 3.19.1.1.7.1 CNASH ENERGY ABSORBER: All cabin passenger seats shall be equipped with crash energy absorbers installed at each safety 93 belt attachment point. CONVERTMILITY: The standard 84-passenger configuration (including 12 club area passengers) shall include full provisions to permit buck conversion to a full range of mixed class interiors utilizing the two coat compartments shown in Figure 1-3 as dividers. These coat compartments shall be designed to utilize the standard floor seat attach points and thus may be placed in any of the rows between rows six and 15 inclusive, excluding emergency butch cross in the rows are received. 3.19.1.1.8 excluding emergency hatch areas, in the main cabin section.

Each of the 22 seat rows shall incorporate standard cabin windows, and each row and of the club area shall have reading lights and individual air outlets for five-abreast seating as shown in the coach configuration in Figure 1-3. All rows shall permit the installation of standard seats or coach seats. Provisions shall be made for installation of a left and right hand hatrack in the club area for use with four and five-abreast seating arrangements. 3.19.1.1.9 GENERAL: Special attention in letail design shall be accorded crash protection of occupants. All protuberances (such as seat backs, control handles, etc.) which could be contacted by an occupant normally restrained in his seat shall be padded with "Ensolite" or equivalent energy absorbing material. Reading lights, call buttons, assist handles, etc., shall be mounted flush or so located as not to be passenger or crew hazards. Use of sharp corners in buffets, tables, lavetories, etc., shall be avoided. / Nonsplintering materials shall be used. MISCELLANEOUS EQUIPMENT: 3.19.2 BUFFET: Two buffets shall be provided, one located forward and one aft as shown on Figures 1-2 and 1-3. Each of the buffets shall consist of two units as shown on Figures 3.19-5, 3.19-6 3.19.2.1 and 3.49-7. The units shall be identified as No. 1, No. 2, No. 2 and No. 4: units 2 and 3 shall be alike for interchange ability. No. 1 unit shall accommodate nine tray carriers, No. 35B 4 unit shall be located forward of No. 3 unit on RH side forward of rear service door facing aft, and shall accommodate ten tray carriers. The buffet installation shall be designed to the loads as specified in Paragraph 3.4.4. These loads shall also apply to buffet insert retention. Solid overhead-type doors shall be installed over evens and tray carriers of units 1, 2 and 3. Hinged side stowing doors shall be provided in No. (cont) unit ew and the

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- 3.19 FURNISHINGS AND EQUIPMENT (Cont)
- 3.19.1.1.7 SAFETY BELTS: Buyer approved commercial type safety belts shall be provided on all seat accommodations. In addition, each crew member's (including observer's) and cabin attenant seats shall be equipped with shoulder harnesses. Inertia reals for the shoulder harness shall be provided for the pilot, copilot and flight engineer.
- 3.19.1.1.8 CONVERTIBILITY: The standard 80 passenger configuration shall include full provisions to permit quick conversion to a full range of mixed class interiors utilizing the two coat rooms shown in Figure 1-3 as dividers. These coat compartments shall be designed so as to utilize the standard floor seat attach points and thus may be placed in excluding emergency batch areas.
- (3.19-D5)

 any of the rows between rows five and fourteen inclusive excluding emergency hatch areas in the main cabin section. Each of the twenty-one seat rows shall incorporate standard for five abreast seating as shown in the coach configuration of standard seats or coach seats without restriction or employment of nonstandard seats.
- 3.19.1.1.9 GENERAL: Special attention in detail design shall be accorded ed crash protection of occupants. All protuberances (such as seat-backs, control handles, etc.) which could be conbe padded with "Ensolite" or equivalent energy absorbing etc. shall be mounted flush or so located as not to be tables, laystories, etc., shall be avoided. Non-splintering
- 3.19.2 MISCELL MEOUS EQUIPMENT:
- BUFFEI: Two buffets shall be provided, one located forward and one aft as shown on Figure 1-2 and 1-3. Each of the outfets shall consist of a fore and aft section as shown buffets shall be made alike for interchangeability. The buffet installation shall be designed to the loads as specified in Paragraph 3.4.4. These loads shall also apply to as described by Appendix II of this specification.

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3.19 F	URNISHINGS A	ND EQUIPMENT	(Cont)	
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- 3.19.2.1 shall be retained in position by 12g ultimate load self-(Cont) locking latches. Counter tops, side and back splash to be one piece replaceable "Formica" or equivalent.
- 3.19.2.1.1 REMOVABLE BUFFET (Effective Ships 1 through 13): All buffet units shall be readily removable for ease of maintenance and servicing.
- 3.19.2.1.1 REMOVABLE BUFFER (Effective Ships 44 and on): All buffet units shall be readily removable for ease of maintenance and servicing. Nutplates shall be installed on the buffet-fuselage attach forks to facilitate buffet installation and removal. Floating type nutplates shall be installed on the floor structure at buffet attach points to ease hole alignment and buffet installation.
- 3.19.2.1.2 BUFFET EQUIPMENT: The design of the fore and aft buffets shall be such that identical equipment is provided at each buffet as required. The equipment and arrangement shall be shown in Figures 3.49-5, 3.19-6, 3.19-6A, and 3.19-7. Final design shall be subject to Buyer approval.

	NO.	OF	ITEMS	IN BUFFE	T UNIT
	No.	1	No. 2	No. 3	No. 4
**Tray Carrier (6-meal capacity) **Food Warming Oven (12-meal		9	0	0	10
capacity/ *Non-Inflatable Escape Chute		0	6	6	0
Stowage Coffee Maker	\	0	1	1	0
Counter Top (Including Liquid		0	1	1	0 -
Drain) *2-Gallon Liquid Container	\	0	1 2	1 2	0
Filters (In addition to Coffee	1		2	_	<i>E.</i>
Maker filter) *Waste Container (Wet and Dry)		Ż	1	1	0
Cold Water Outlet		8	1	i	0
Water Cooler (1 Qt capacity)		0/	1	1	0
Switch Panel Integral Counter Light		0	\ \ \ \ \ \	1	0
Hot Cups		0	\ ī	ī	ŏ
Hinged Serving Counters		0	/ 2	5	0
Miscellaneous Stowage		Ав	avails	ble prov	1

3.19.2.1.2

Refer to APPENDIX I-B for description of equipment to be furnished and installed by Customer after delivery of aircraft. All other items to be Contractor furnished Contractor installed equipment.

*Incorporates 12g Load Carrying Doors
**Incorporates 3g Load Carrying Doors

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3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.2.1 (Cont)

22A 35B 169 as follows: (a) one pair for each lower two levels on aft side, (b) a single door for the three inboard tray carriers and (c) a single door for the upper aft tray carrier. All doors shall be designed to utilize easily replaceable commercial material and to sustain a 3g ultimate load from level ovens or tray carriers. The overhead doors over the ovens and tray carriers shall be designed to serve as auxiliary terving counters. All loaded ovens and tray carriers shall be retained in position by 12g ultimate, load self-locking latches. Counter tops, side and back splash to be one repliceable "Formica" or equivalent.

- 3.19.2.1.1 TEMOVARYE BUFFET: All buffet units shall be readily removable for ease of maintenance and servicing.
- 3.19.2.1.2 BUFFET EQUILIENT: The design of the fore and aft buffets shall be such that identical equipment is provided at each buffet as required. The equipment and arrangement shall be shown in Figures 3.19-5, 3.19-6A, and 3.19-7. Final design shall be subject to Buyer approval.

	Males JF	III S. B.	July 34	Landing to the same
		10. 2 in		1111
**Tray Carrier (6-meal capacity)	0	n	0	10
**Food Warming Even (12-meal	7	O	J	.LU
capacity)	O	Ö	6	0
*Non-Inflatable Escape Chute				
Stowage #	60	1	1	0
Coffee Maker	0	1.	1	0
Counter Top (Including Liquid	-			
Drain) /	0	1	1	C
*2-Gallon Liquid Container	1	2	2	2
Filters (In addition to Coffee		A		
Maker filter)	0	1	1	0
*Waste/Container (Wet and Dry)	0	1	I.	0
Cold/Water Outlet	0	1	1	0
Water Cooler (1 Qt capacity)	0	1	1	0
Switch Panel	0	1	1	0
Integral Counter Light	0.	1	1,	0
Hot Cups	0	1	1	0
Hinged Serving Counters	0	2	1 1011	0
Miscellaneous Stowage	As	ivailable	FLOA	

^{**} ncorporates 12g Load Carrying Doors
** ncorporates 3g Load Carrying Doors

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3.19

FURNISHINGS AND EQUIPMENT (Cont)

- 3.19.2.1.2 (Cont)
- Refer to APPENDIX I-B for description of equipment to be furnished and installed by Customer after delivery of wircraft. All other items to be Contractor furnished Contracton installed equipment.
- 3.19.2.1.3

CONTROL PANEL: A cabin attendant's panel shall be provided over each service door on right hand side of cabin (one forward and one aft). These panels shall contain controls for the following:

Entrance, passenger and buffet lighting Passengel and crew call system

A separate control panel for the service interphone and public address systems, and a handset shall be provided, one each at forward and aft stewardess stations.

3.19.2.1.4

WATER SYSTEM: A premurized potable water system shall be provided to supply the lavatory wash basins and buffets. Filters will be provided in buffets which have coffee makers or drinking vater outlets. The system shall provide for draining on the ground. The tank capacity shall be 50 gallons of water with an adequate air space to act as a pressure reservoirt. Means for filling on the ground at a vate of at least 10 cpm shall be provided. An overflow pive from the tank shall visually indicate at the ground service connection when the tank is full. The system shall be located and designed to prevent freezing system shall be located and designed to prevent freezing in flight. An air pump shall be provided. The pump assembly shall be rated for continuous duty operation.

The supply tank shall be designed to ensure that the last remaining ten gallons in the tank will supply only the buffets.

Suitable controls shall be located on the Flight Engineer's panel for operation of the water system. These controls shall consist of the following:

- 1. Low pressure warning light
- 2. Pump switch

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3.19 FULNISHINGS AND EQUIPMENT (Cont)

3.19.2.1 (Cont) as follows: (a) one pair for each loyer two levels on aft side. (b) a single door for each of the three inboard tray curriers and (c) a single door for the upper aft tray carrier. All doors shall be designed to utilize easily replaceable commercial material and to sustain a 3g ultimate load from loaded ovens or tray carriers. The overhead doors over the ovens and tray carriers shall be designed to serve as auxiliary serving counters. All loaded ovens and tray carriers shall be retained in position by 12g ultimate load telf-locking latches. Counter tops, side and back splash to be one piece replaceable "Formica" or equivalent.

3.19.2.1.1

REMOVABLE BUFFET: All buffet units shall be readily removable for ease of maintenance and servicing.

A 3.19.2.1.2

BUFFET EQUIPMENT: The design of the fore and aft buffets shall be such that identical equipment is provided at each buffet as required. The equipment and arrangement shall be shown in Figures 3.19-5, 3.19-6, 3.19-6A, and 3.19-7. Final design shall be subject to Buyer approval.

	NO. OF	IMIS I.	HITTLE	MIL
	1100 1	No. 2 No.		2 4 14
** Fray Carrier (6-meal caracity)	9	0	0	10
**Food Warming Oven (12-mea) capacity)	0	5	5	0
*Non-Inflatable Escape Chute Stowage	0	1	1	0
Coffee liaker	0	1	1	O
Counter Top (Including Liquid Drain) *2-Gallon Liquid Container	1	1 2	1 2	0 2
Filters (In addition to coffee maker filter)	0	1	1	0
*Waste Container (Wet and Dry)	0	1	1	0
/ Cold Water Outlet	0	1	7	0
Water Cooler (1-Qt Capacity) Switch Panel	Ô	Ť	Ť	0
Integral Counter Light	ő	î	ī	Ö
Hot Cups	0	1	1	0
*Drawers (4)	0	1	1	O
Hinged Serving Counters	. 0	2	2 prov	0
Miscellaneous Stowage	As	available		

*Incorporates 12g Lead Carrying Doors
**Incorporates 3g Load Carrying Doors

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3.19

FURNISHINGS AND EQUIPMENT (Cont)

- 3.19.2.1.2 (Cont)
- Merer to APPENDIX I-B for description of equipment to be furnished and installed by Customer after delivery of aircraft. All other items to be Contractur furnished Contractor installed equipment.
- 3.19.2.1.3

CONTROL PAMEL: A cabin attendant a control panel shall be provided at each cabin attendant's seat location (one forward and one rear). These panels shall each contain controls for the following:

Entrance, passenger and buffet lighting Passenger and crew call system Service interphone Public address system

2A 3.19.2.1.4

WATER SYSTEM: A pressurized potable water system shall be provided to supply the lavatory wash basins and buffets. Filters will be provided in buffets which have coffee makers or drinking water outlets. The system shall provide for draining on the greand. The tank capacity shall be 50 gallons of water with an adequate air space to act as a pressure reservoir. Means for filling on the ground at a rate of at least 10 pph shall be provided. An overflow pipe from the tank shall visibility indicate at the ground service connection when the tank is full. The system shall be located and designed to prevent freezing in flight. An air pump shall be provided. The pump assembly shall be rated for continuous cuty operation.

The supply tank shall be tasigned to ensure that the last remaining ten gallons in the tank will supply only the buffets.

Suitable controls shall be located on the Flight Engineer's panel for operation of the water system. These controls shall consist of the following:

- Low pressure warning light 1.
- 2. Pump switch

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3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.2.1.1 REMOVABLE BUFFET: All buffet units shall be readily removable for ease of maintenance and servicing.

3.19.2.1.2 BUFFET EQUIPMENT: The design of the fore and aft buffets shall be such that identical equipment is provided at each buffet. The equipment and arrangement shall be shown in Figures 19-5/8. Final design shall be subject to Buyer approval.

Food warming ovens
Hot and cold beverage containers
Passenger drinking water containers
Refuse container
Instantaneous coffee maker
Tray carriers
Cabin attendant's assist handles
Miscellaneous drawers and stowage compartments
Water filters

3.19.2.1.3 CONTROL PANEL: A cabin attendant's control panel shall be provided at each cabin attendant's seat location (one forward and one rear). These panels shall each contain controls for the following:

Entrance, passenger and buffet lighting Passenger and crew call system Service interphone Public address system

3.19.2.1.4 WATER SYSTEM: A pressurized potable water system shall be provided to supply the lavoratory wash basins and buffets. Filters will be provided in buffets which have coffee

makers or drinking water outlets. The system shall provide for draining on the ground. The tank capacity shall be 50 gallons of water with an adequate air space to act as a pressure reservoir. Means for filling on the ground at a rate of at least 10 gpm shall be provided. An overflow pipe from the tank shall visually indicate at the ground service connection when the tank is full. The system shall be located and designed to prevent freezing in flight. An air pump shall be provided. The pump assembly shall be rated for continuous duty operation.

The supply tank shall be designed to ensure that the last remaining 10 gallons in the tank will supply only the buffets.

Suitable controls shall be located on the flight Engineer's panel for operation of the water system. These controls shall consist of the following:

1. Low pressure warning light

2. Pump switch

2A

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(3.19-D9)

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3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.2.1 REMOVABLE BUFFET: All buffet units shall be readily re-

3.19.7.1.2 BUFFET EQUIPMENT: The design of the fore and aft buffets shall be such that identical equipment is provided at each puffet. The equipment and arrangement shall be shown in Figures 19-5/8. Final design shall be subject to Buyer

approval.

Food warming ovens
Hot and cold beverage containers
Passenger drinking water containers
Refuse container

Instantaneous coffee maker Tray carriers Cabin attendants assist handles

Miscellaneous drawers and stowage compartments

3.19.2.1.3 CONTROL PANEL: A cabin attendant's control panel shall be provided at each cabin attendant's seat location (one forward and one rear). These panels shall each contain controls for the following:

Entrance, passenger and buffet lighting Passenger and chew call system Service interphone Public address system

3.19.2.1.4 WATER SYSTEM: Two pottble water systems shall be provided to supply the lavatory wash basins and the two buffets with one system forward and one aft. A total of 50 gallons shall be provided, 20 forward and 50 gallons aft. Each tank system shall be of the gravity type and shall include a vent, overflow line and means of filling from the ground at a rate of at least 10 gpm. All water lines shall be so installed as to preclude traps and shall include drain valves

for completely draining the system. Fill and drain valves shall be located inside of the heated area of the fuselage. All system parts shall be resistant to corrosion and suitable for use with water having 20 ppm of chlarine. Consideration shall be given to using flexible water lines to reduce line-freezing, and to making fore and aft water tanks identical.

CONVAIR REPORT NO ZD-22-003 ANALYSIS PREPARED BY MODE 22 CHECKED BY PATE 9-20-56 REVISED BY Rev. 7-15-59 FURNISHINGS AND EQUIPMENT (Cont) 3.19 LAVATORIES: Three lavatory compartments shall be provided; 3.19.2.2 one located forward of the passenger compartment and two aft. Each lavatory shall be equipped with a nonflushing-type toilet B 15 with standard airline connections (four-inch Roylon flushing outlets and one inch Roylon service charging inlets) for ground servicing without entering the lavatory compartments. A wash basin with a 3/4-inch diameter drain, manually-operated drain stopper with easily replaceable seal, one each hot water and cold water household-type spring-loaded faucets so dosigned that passengers may wash their hands with running water, shall be provided in each lavatory. A two-quart capacity hot water bank, equipped with electrical heating elements, shall be installed, one in the forward lavatory and one aft to supply hot water to each lavatory wash basin. A 40-gallon capacity waste tank shall be provided for the aft lavatories and a 30-gallon baste tank for the forward lavatory. A pressure box and access door shall be provided in the fuseless under box and access door shall be provided in the fuselage under the aft lavatories to the right of airplane centerline. Both aft lavatory drams shall be connected through a Y-fitting to a single connection to the pressure box for ground lavatory flushing. A flush line shall be provided to accomplish the ground flushing operation. Pressure caps shall be provided for the drain/and flush lines. The lavatory lights shall dim when the door is open. DOOR LOCKS / Each lavatory door shall be equipped with a 3.19.2.2.1 handle and lock. The lock shall be of the keyless slide-bolt type which may be unlocked from the outside in an emergency without the use of tools. OCCUPIED - VACANT SIGNS: One bilingual (English and Spanish) "Occupied - Vacant" sign shall be provided for each lavatory. 3.19.2.2.2 200 These signs shall be appropriately illuminated by lavatory door slide bolt action. Indication of lavatory occupancy shall also be provided by the slide bolt over each door knob. MISCELLANEOUS LAVATORY EQUIPMENT: The following equipment 3.19.2.2.3 shall be installed in each lavatory: Three shatterproof mirrors (one mirror in each lavatory) One coat hook (folding-type on lavatory door)
Two assist handles (one at toilet and one at wash basin) One call button (cabin attendant identified) One shaver outlet (24-volt dc)
One shaver outlet (115-volt dc) One soap dispenser (cake) Two towel dispensers (one for linen and one for paper)
Two towel disposals (one for linen and one for paper) One toilet paper dispenser (roll) One cleansing tissue dispenser One sanitary napkin dispenser (envelope-type) Air sickness bag stowage Miscellaneous stowage cabinets One individual air outlet

DATE

FURNISHINGS AND EQUIPMENT (Cont) 3.19

> coat compartment opening shall be curtained Curtain materials shall be as specified in the Finish Specification.

3.19.3.6 (5-19-9)

HAT RACKS: Overhead hat racks shall be installed, extending the full length of the main passenger compartment in (CCP 38A, 40A) the Standard Version, including the area over the three forward left hand double seats. Passenger hat rack accommodations shall be adjustable fore and aft.

3.19.

FIRE EXTINGUISHING EQUIPMENT:

3.19.4. (5-19-2)5-19-13 (55-19-45) NACELLE FIRE EXTINGUISHING SYSTEM: Two "HRD" type, two shot (Main and Reserve) fire extinguishing systems shall be installed to extinguish fires in pod and pylon areas, both in flight and on the ground, and shall conform to the requirements of CAR. The complete installation shall consist of two independent systems; one for the right hand propulsion systems, and one for the left hand propulsion systems. The containers shall be charged with the extingaishing agent and nitrogen. A pressure gage shall be provided at each fire extinguishing agent container. The heating and ventilating systems shall be designed so that entry of discharged fire extinguishing agent into the occupied areas will not be possible. The supply bottles shall be accessible and removable for recharging and inspection. Bottle pressure gages shall be readily accessible for viewing during preflight inspection. An overboard thermal discharge indicator (red disc) shall be so located so as to be visible during a walk-around ground inspection.

3.19.4.1.1 (5-19-2)

CONTROLS: A selective-type control system shall be installed which shall allow the extinguishing agent to be directed to the respective pods and pylons. A switch

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3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.2.2

LAVATORIES: Three lavatory compartments shall be provided; one located forward of the passenger compartment and two aft. Lach lavatory shall be equipped with a nonflushing type toilet with standard airline connections (four/inch Roylyn flushing outless and one inch Roylyn service charging inlets) for ground servic-Ang without entering the lavatory compartments. A wash basin with a 3/4 inch diameter drain, manually-operated drain stopper with easily replaceable seal, one each hot water and cold water household type spring-loaded faucets so designed that passengers may wash their hands with running water, shall be provided in each lavatory. A 2-quart capacity hot water tank, equipped with electrical heating elements, shall be installed, one in the forward lavatory and one aft to supply hot water to each lavatory wash basin. A forty-gallon capacity waste tank shall be provided for the aft lavatories and a thirty-gallon waste tank for the forward lavatory. A pressure box and access
door shall be provided in the fuselage under the aft lavatories
to the right of airplane centerline. Both aft lavatory drains shall be connected through a Y-fitting to a single connection to the pressure box for ground lavatory flushing. A flush line shall be provided to accomplish the ground flushing operation. Pressure caps shall be provided for the drain and flush lines. The lavatory lights shall dim when the door is open.

- 3.19.2.2.1 DOOR LOCKS: Fach layatory door shall be equipped with a handle and lock. The lock shall be of the keyless slide bolt type which may be unlocked from the outside in an emergency without the use of Lools.
- 3.19.2.2.2 OCCUPIED FIGNS: One lavatory "Occupied" sign shall be provided for each lavatory. The lavatory door slide bolt shall cause the "Occupied" sign to illuminate. Visual indication of occupancy will be provided by means of the slide bolt above each door knob in the form of sign containing one inch block letters.

MISCELLANEOUS LAVATORY EQUIPMENT. The following equipment shall be installed in each lavatory: 3.19.2.2.3

One shatterproof mirror (over wash hasin)

One coat hook (folding-type on lavatory door)
Two assist handles (one at toilet and one at wash basin)
One call button (cabin attendant identified)

One shaver outlet (24 volt dc)

One shaver outlet (115 volt dc)

One soap dispenser (cake)

One towel dispenser unit (consisting of three dispensers, two universal for either linen or paper, and one for paper only)
Two towel disposals (one for linen and one for paper)

One toilet paper dispenser (roll)

One cleansing tissue dispenser

One sanitary napkin dispenser (envelope type)

Air sickness bag stowage

Miscellaneous stowage cabinets

One individual air outlet

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FULNISHINGS AND LQUIPITNI (Cont) 3.19

3.19.2.2

LAVATORIES: Three lavatory compartments stall be provided; one located forward of the passenger compartment and two aft. Each lavatory shall be equipped with a nonflushing type lottlet with standard airline connections four inch hoylong flushing outlets and one inch hoylon fervice charging inlets) for ground servicing without entering the lavatory compartments. A wash basin with 3/4 inch miameter drain containing a manually-operated drain stopper with easily replaceable seat and household type spring landed faucet, so designed a manually-operated drain stopper with easily replaceable seal and household type spring lyaded faucet, so designed that massengers may wash their lands with running water, shall be provided in each lavarory. A forty-gallon capacity waste tank shall be provided for the aft lavatories and a thirty-gallon waste tank for the forward lavatory. A pressure box and access door shall be provided in the fuselage under the aft lavatories to the right of airplane centerline. Both aft lavatory drains hall be connected through a Y-fitting to a single connection to the pressure box for ground lavatory flushing. A flush line shall be provided to accomplish the ground flushing operation. Pressure caps shall be provided for the drain and flush lines. The lavatory lights shall dim when the dfor is open.

- DOOR LOCKS: Each levatory door shall be equipped with a handle and lock. The lock shall be of the keyless slide bolt type which my be unlocked from the outside in an emergency without the use of tools. 3.19.2.2.1
- CCCUPIED SIGNS One lavatory "Occupied" sign shall be provided for each lavatory. The lavatory door slide bolt shall cause the "Occupied" sign to illuminate. Visual indication of occupancy will be provided by means on the slide bolt above each door knob in the form of a sign containing one inch block letters. 3.19.2.2.2
- MISCELLAN OUS LAVATORY EQUIPMENT: The following equipment 3.19.2.2.3 shall be installed in each lavatory:

One hatterproof mirror (over wash basin)

One coat hook (folding-type on lavatory door)

Two assist handles (one at toilet and one at wash

On call button (cabin attendant identified)

Ore shaver outlet (24 volt dc)

Ole shaver outlet (115 volt dc)

ne soan dispenser (cake)

two towel dispensers (one for linen and one for paper) Two towel disposals (one for linen and one for paper)

One toilet paper dispenser (roll)

One cleansing tissue dispenser

One sanitary napkin dispenser (envelope type)

Air sickness bag stowage

Miscellaneous stowage cabinets

One individual air outle:

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3.19

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FURNISHINGS AND EQUIPMENT (Cont)

3.19.2.2

LAVATORIES: Three lavatory compartments shall be provided; one located forward of the passenger compartment and two aft. Each lavatory shall be equipped with a nonflushing type toilet with standard airline connections (four inch Roylon flushing outlets and one inch Roylon service charging inlets) for ground servicing without entering the lavatory compartments. A wash basin with 3/4 inch diameter drain containing a manually-operated drain stopper with easily replaceable seal and Mousehold type spring loaded faucet, so designed that passengers may wash their hands with running water, shall be provided in each lavatory. A forty-gallon capacity waste tank shall be provided for the aft lavatories and a therty-gallon waste tank for the forward lavatory. A pressure box and access door shall be provided in the fuselage under the aft lavatories to the right of airplane centerline. Both aft lavatory drains shall be connected through a Y-fitting to a single connection to the pressure box for ground lavatory flushing. A flush line shall be provided to accomplish the ground flushing operation. Pressure caps shall be provided for the drain and flush lines. The lavatory lights shall dim for the drain and flush lines. The lavatory lights shall dim when the door is open.

3.19.2.2.1

DOOR LOCKS: Each lavatory door shall be equipped with a handle and lock. The lock shall be of the keyless slide bolt type which may be unlocked from the outside in an energency without the use of tools.

3.19.2.2.2

OCCUPIED SIGNS: One lavatory "Occupied" sign shall be provided for each lavatory. The lavatory door slide bolt shall cause the "Occupied" sign to illuminate. Visual indication of occupancy will be provided by means of the slide bolt above each door knob in the form of a sign containing one inch block letters.

3.19.2.2.3

MISCELLANEOUS LAVATORY EQUIPMENT: The following equipment shall be installed in each lavatory:

One shatterproof mirror (over wash basin)

One coat hook (folding-type on lavatory door) Two assist handles (one at toilet and one at wash basin)

One call button (cabin attendant identified)

One shaver outlet (24 volt DC)
One shaver outlet (115 volt DC)

One soap dispenser (cake)

Two towel dispensers (one for linen and one for paper)

Two towel disposals (one for linen and one for paper)

One toilet paper dispenser (roll)

One cleansing tissue dispenser

One sanitary napkin dispenser (envelope type)

Air Sickness bag stowage

Miscellaneous stowage cabinets

One individual air outlet

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3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.2.2

(3.19-22)

LAVATORIES: Three lavatory compartments shall be provided; one located forward of the passenger compartment and two aft. Each lavatory shall be equipped with a nonflushing type toilet with standard airline connections (four inch Roylon flushing outlets and one inch Roylon service charging inlets) for ground servicing without entering the lavatory compartments. A wash basin, with 3/4 inch diameter drain containing a manually-operated drain stopper with easily replaceable seal and household type spring loaded facet, so designed that passengers may wash their hands with running water, shall be provided in each lavatory. A forty-gallon capacity waste tank shall be provided for the art lavatories and a thirty-gallon waste tank for the forward lavatory. The lavatory lights shall dim when the door is open.

- 3.19.2.2.1 (3.19-D11)(3.19-25)
- DOOR LOCKS. Each lavatory door shall be equipped with a handle and lock. The lock shall be of the keyless slide bolt type which may be unlocked from the outside in an emergency without the use of tools.
- 3.19.2.2.2
- OCCUPIED SIGNS: One lavatory "Occupied" sign shall be provided for each lavatory. The lavatory door slide bolt shall cause the "Occupied" sign to illuminate. Visual indication of occupancy will be provided by means of the slide bolt above each door knob in the form of a sign containing one inch block letters.
- (3.19-26)

3.19.2.2.3

(3.19-D12)

MISCELLANEOUS LAVATORY EQUIPMENT: The following equipment shall be installed in each lavatory:

One shatterproof mirror (over wash basin)

One coat hook (folding-type on lavatory door)
Two assist handles (one at toilet and one at wash basin)

One call button (cabin attendant identified)

One shaver outlet (24 volt DC) One shaver outlet (115 volt AC)

One soap dispenser (cake)

Two towel dispensers (one for linen and one for paper)
Two towel disposals (one for linen and one for paper)

One toilet paper dispenser (roll)

One cleansing tissue dispenser

One sanitary napkin dispenser (envelope type)

Air sickness bag stowage

Miscellaneous stowage cabinets

One individual air outlet

3.19.2.2.4

WATER TANK TUBING: Deleted (Per RFC 319-28)

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	3.19	FURNISHINGS AND EQUIPMENT (Cont)	
	3.19.2.3	COAT STOWAGE: Passenger coat stowage be provided as shown on interior arra Design objective shall be to obtain of for each passenger and cabin attendan	ingement drawings.
	3.19.2.4	LUGGAGE RACKS: Deleted.	
105	3.19.2.5	LUGGAGE AND CARGO COMPARTMENTS: Two luggage compartments shall be provide area of the fuselage; one forward and Flooring and forward bulkhead in each shall be .045 aluminum alloy or equivontinuous or smoothly spliced, shall ceiling and sidewalls shall be lined Removable access panels shall be provident located behind the cargo lining openings shall be sealed to meet the Class "D" compartments. Means shall equalizing pressure between cargo compartments.	ed in the under-floor of one aft of the wing. I cargo compartment valent. Skid strips, be installed. The with removable panels. Vided over all equipalled car and CAR requirements for be provided for
	3.19.2.5.1	WEB GATES: A web gate shall be provided to keep the area clear.	ded at each cargo
/304	3.19.2.5.2	TIE DOWN RINGS: The flooring in both cargo compartments shall be reinforce shall be provided with 12 each flush for securing heavy or uncrated cargo.	ed as required and type tie-down rings
	3.19.2.6	WINDSHIELD WASHERS AND WIPERS: (See	3.7.1.3.2.2.)
	3.19.2.7	PYROTECHNICS:	
	3.19.2.7.1	FLARE DISPENSERS: Two electrically-opensers shall be installed to eject for downward from the aft lower fuselage inspecting the latch after flare load. The release of flares shall be controcompartment by safeguarded electrical as to prevent inadvertent release of	lares vertically area. A means for ling shall be provided. Olled from the flight switches wired so

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- FURNISHINGS AND EQUIPMENT (Cont)
- 3.19.2.3 COAT STOWAGE: Passenger coat stoward compartments shall be provided as shown on interior arrangement drawings. Design objective shall be to obtain one inch of coat space for each passenger and caban attendant.
- 3.19.2.4 LUGGAGE RACKS: Deleted.
- 3.19.2.5 LUGGAGE AND CARGO COMPARTMENTS: Two combination cargo and luggage compartments shall be provided in the under-floor area of the fuselage; one forward and one aft of the wing. Flooring and forward bulkhead in each cargo compartment shall be .045 aluminum alloy or equivalent. Skid strips, continuous or smoothly spliced, shall be installed. The ceiling and sidewalls shall be lined with removable panels. Removable access panels shall be provided over all equipment located behind the cargo lining. All joints and openings shall be sealed to meet the CAR requirements for Class "D" compartments. Means shall be provided for equalizing pressure between cargo compartments and adjacent pressurized compartments.
- 3.19.2.5.1 WEB GATES: A web gate shall be provided at each cargo door to keep the area clear.
- WINDSHIELD WASHERS AND WIPERS; (See 3.7.1.3.2.2) 3.19.2.6
- 3.19.2.7 PYROTECHNICS:
- FLARE DISPENSERS: Two electrically operated flare dispen-3.19.2.7.1 sers shall be installed to eject flares vertically down-ward from the aft lower fuselage area. A means for inspecting the latch after flare loading shall be provided. The release of flares shall be controlled from the flight compartment by safeguarded electrical switches wired so as to prevent inadvertent release of the flares.

C O N V A 1 R PAGE 104 ANALYSIS REPORT NO. ZD-22-003 PREPARED BY MODEL 22 CHECKED BY DATE 9-20-55 REVISED BY Rev. 1-12-59 FURNISHINGS AND EQUIPMENT (Cont) 3.19 OBSERVER'S SEAT: A folding auxiliary seat with upholstered 3.19.1.1.3 seat, backrest and arms, shall be provided ant of the pilot for use of an observer. CABIN ATTENDANT'S SEATS: Three unholstered seats and back-rests shall be provided for cabin attendants; one single aft 3.19.1.1.4 129 facing seat on aft face of forward left hand coat compartment, one aft facing sest on Aeft hand caoin aft bulkhead and one forward facing seat on inboard face of aft left hand coat compartment. The seats shall be of the folding-type and shall be capable of being stowed clear of the aisle when not in use. The seats shall be located in accordance with the interior plans (Figure 1-2). CLUB AREA SEATS: A 22-place club area shall be provided eft of the forward main entrance door, with seat assemblies 3.19.1. arranged as follows: a. Left hand double-seat facing aft b. Right hand double-seat facing aft c. Right hand double-seat facing forward d. Left hand quadruple-seat assembly e. Right hand double-seat feeing inboard 3.19.1.1.6 AASSENGER SEATS: The passenger seat arrangement shall be se shown on Figures 1-2 and I of Appendix II. Except for the clib area seats, which shall have fixed backs, all passenger seats shall have reclinable backs. All passenger seats shall be equipped with removable or folding center armests. Equipment shall not be located or stowed under the passenger seats, however, a minimum of 10 x 15 x 24 Inches shall be provided under the seats, exclusive of club area seats, for passenger pastage stowage. Integral folding food tray tables located in each seat back (except for club area and forward main cabin seats), literature pockets, and stowage space for air sickness bags shall be provided. Seat bottom cushions shall be removable and cable as life preservers. To assist In this regard, a strap shall be sewed on each of two opposite edges. B.19.1.1.6.1.

SEAT BACK MOVEMENT: Each reclining test shall be designed so that pressure applied on the aft side of the seat-back will override the recline control lock, without additional manual operation, and fold the seat-back forward to its normal vertical position. This pressure on the seat-back shall not exceed 30 pounds. The seat-back shall be permitted to fold further forward to approximately a horizontal position on the seat aushion by applying a load of not less than 50 pounds pressure or more than 60 pounds pressure on the aft side of the seat-back. The seat-backs shall be permitted to fold forward without removal of armrests. Seat-back posttions shall be as follows:

Normal Vertical Recline

12° aft of vertical 38° aft of vertical

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3.10 ITENISHE AND EQUIPMENT (Cont)

3.19.2.3 COAT STOWARE: Passenger coat stowage compartments shall be provided as shown on interior arrangement drawling. Design objective shall be to obtain one inch if coat space for each

(3.19-213) passenger and cabin attendant.

3.19.2.4 LUGGAGE PACKS: Deleted. (3.19-30)

LIGRAGE AND CARGO COMPARTMENTS Two combination carro and 3.19.2.5 luggige compartments shall be provided in the under-floor luggige compartments shall be provided in the under-floor area of the fuselage; one forward and one aft of the wire. Flooring in the cargo compartment shall be of .051 aluminum alloy on equivalent. Skid strips, continuous or smoothly spliced, shall be installed. The ceiling and sidewalls shall be fined with removable panels. Temovable access panels shall be provided over all equipment located behind the cargo lining. All joints and openings shall be sealed to meet the CAR requirements for Class "D" compartments. Means shall be provided for equalizing pressure between cargo compartments and adjacent pressure zed compartments.

WER GAMTS: A we tate shall be provided at each cargo door to keep the are clear. 3.19.2.5.1

WINDSWIELD WARMERS AND VIPERS: (See Par. 3.7.1.3.2.2) 3.19.2.6

3.19.2.7 PYROPECHITOS

FURNIBLE A

3.19.2.7.1 • FLARE DISPENSERS: Two electrically-operated flare dispensers shall be installed to eject flares vertically downward from theraft lower fuselage area. A means for inspecting the latch after flare loading shall be provided. The release of flares shall be controlled from the flight compartment by safeguarded electrical switches wired so as to prevent inadvertent release of the flares.

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3.19 FURNISHINGS AND EQUIPMENT (Cont) 3.19.2.8 MISCELLANEOUS: 3.19.2.81 ASH TRAYS: Ash trays shall be provided for the following: One pilot One copilot Que flight engineer (3.19-32)One observer One for each passenger seaf including lounges (interchangeable) One at each lavatory entrance (placarded for use before entering) CHECK-OFF LIST: One roll-type pilot's check-off list shall 3.19.2.8.2 be provided in the flight compartment. CERTIFICATE MOLDEA: One transparent airworthiness certificate holder shall be provided. 3.19.2.8.3 RADIO LICENSE AONDER: One transparent radio license holder 3.19.2.8.4 shall be provided in the flight compartment. FLIGHT MANUAL: One Cha approved aircraft flight manual 3.19.2.8.5 shall be provided and stowed in the flight compartment, in the same container provided for airplane and engine log books. 3.19.2.8.6 FLIGHT KIT STOWAGE: One flight kit stowage shall be provided on the floor outboard of the pilot and copilot seats. CREW LOCKER: One crew locker shall be provided for the 3.19.2.8.7 flight crew for stowing coats and miscellaneous equipment. MAGAZINE RACKS: Two suitable magazine racks of the self 3.19.2.8.8 (3.19-D15) sections of the main passenger cabin and shall be so arranged as to be adequate for use in all three interior configurations. 3.19.2.8.9 AIR SICKNESS: Provisions shall be made at each passenger seat for stowing air sickness bags. 3.19.2.8.10 PLACARDS: The required placards in the flight compartment shall be silk-screened metal and shall be removable. This (3.19-1)shall also apply in the passenger compartment, except where other materials may be used for reasons of appearance. Luminous paint shall be used for lettering on emergency exit placards. A placard visible to both pilots to indicate values of V1 and V2 speeds in knots vs. representative (3.19-D19) operating weight values from minimum to maximum shall be provided. Location shall be subject to Buyer approval at mock-up.

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3.19 FURNISHINGS AND EQUIPMENT (Cont)

Fire extinguishers

3.19.2.8.10 Placards containing information and/or instructions shall be provided for the following:

Emergency exits hatch operation (two, in English and Spanish)
Controls on pedestal
Seat letter and row numbers (both sides)
Escape gear
Cargo loading

Lavatory signs (one for each lavatory, over "Occupied - Vacant" signs, in English and Spanish)
Oxygen equipment
Drinking water
Lavatory ash trays
Lavatory equipment
No smoking (lavatories)
First aid kit

3.19.2.8.11 DRINKING WATER OUTLETS: Aequirements deleted.

3.19.2.8.12 COFFEE CONTAINERS: Individual coffee cup holders shall be provided for each crew member except observer.

3.19.2.8.13 ASSIST HANDLES AND BARRIERS: In assist handle capable of supporting a 200-pound man shall be provided on the frame on the hinge side at each main entry door and galley service door. Door safety barriers shall be provided at each main entry and galley service door.

3.19.3 FURNIȘHINGS:

3.19.3.1 GENERAL ARRANGEMENT: The standard fuselage interior general arrangement is shown herein on Figure 1-2 and Figure 1-3.

Interior trim fabrics, upholstering, floor coverings, finishes and color scheme shall be as described in Convair Interior Finish Specification.

PASSENGER COMPARTMENT: The passenger compartments provide seating accommodations for 84 passengers, including 12 club area passengers. In the standard configuration, the passenger compartment aisle shall be 24 inches wide between arm rests, and in the coach configuration will be at least 18 inches. The minimum clear ceiling height to the main cabin shall be at least 85 inches except in the areas of lowered ceiling.

FLOOR COVERING: Floor covering throughout the aircraft shall be as specified by the Interior Finish Specification. Acidresistant paint shall be applied to the metal under-surface of the floor and to the structure only in the lavatory and buffet areas extending 20 inches forward, aft and laterally as well as above and below the floor. Floor covering shall be installed to restrict creeping and curling. A readily removable section of the carpeting in the entry way shall be provided.

3.19.3.2

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3.19.3.1.1

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CONVAIR A ALYSIS PAGE 110 SAN DIEGO PREPARED BY REPORT NO. ZD-22-003 CHECKED BY MODEL 22 REVISED BY DATE 9-20-56 Rev. 7-15-59 3.19 FURNISHINGS AND EQUIPMENT (Cont) 3.19.2.8.10 Placards containing information and/or instructions shall be provided for the following: 200 Emergency exits hatch operation Orygen equipment (two, in English and Spanish) brinking water Controls on pedestal Lavatory ash trays Seat letter and row numbers Lavatory equipment (both sides) No Smoking (lavatories) Escape gear Cargo loading First aid kit Fire extinguishers 198 Lavatory signs (one for each lavatory, over "Occupied-Vacant" signs, in Inglish and Spanish 3.19.2.8.11 DRINKING WATER OVILETS; Requirements deleted. 3.19.2.8.12 COFFEE CONTAINTERS: Individual coffee cup holders shall be provided for each crew member except observer. 3.19.2.8.13 ASSIST HANDLES AND BARRIERS: An assist handle capable of supporting a 200-pound man shall be provided on the frame on the hinged side at each main entry door and galley service door. Foor safety barriers shall be provided at each main entry and galley service door. 3.19.3 FURNASHINGS: GENERAL ARRANGEME T: The standard fuselage interior general 3.19.3.1 grangement is shown herein on Figure 1-2 and Figure 1-3. Interior trim fabrics, upholstering, floor coverings, finishes and color scheme shall be as described in Convair Interior Finish Specification. PASSENGER COMPARTMENT: The passenger compartments provide seating accommodations for 84 passengers, including 12 club area passengers. In the standard configuration, the passenger compartment aisle shall be 28 inches wide between arm rests, and in the coach configuration will be at least 18 inches. The minimum clear ceiling height to the main cabin shall be at least 85 inches except in the areas of lowered 3.19.3.1 138 ceiling.

3.19.3.2

provided.

FLOOR COVERING: Floor covering throughout the aircraft shall be as specified by the Interior Finish Specification. Acid-resistant paint shall be applied to the metal undersurface of

the floor and to the structure only in the lavatory and buffet areas extending 20 inches forward, aft and laterally as well as above and below the floor. Floor covering shall be installed to restrict creeping and curling. A readily removable section of the carpeting in the entry way shall be

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SAN DIEGO

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FURBISHINGS AND .- UIPM No (Cent) 3.1,

3.19.2. .10 Placard, containing information and/or in truction and/or in truction and/or in truction and/or in truction

meriency exits Controll on pedestal
Deat letter and row
number: (both side.)
Locape jear
Carjo learing
Fire extinguishers

Organ equipment Drinking Leter Lavatory & tray Lavatory equipment he moking (nevet rin) First Aid Kit

Dainking wat a outlits: Aequirement, delete. 3.19.2. .11

(3.19-D16)

COFF CONTAIN AS: Iddividual coffee cup coller mail pe provided for each crown member except observer. 3.19.2...12 (3.1) - 47)

ASSIST HANDL AND Mark as: An actual handle car ble of apporting a 200 sound man small be provided in the line on the hinge sid at each main entry door and alleg termined door. Don't safet barrier, small be provided at each main entry and calley persice door. 3.15.0.1.13 (3.19-45)

FURNISHINGS: 3.1.3

C Namal Add ANG M INT: The otendard functage interior to a eral arrangement is above herein on Figure 1-2 and 1-3. Interior trial fabrics, upholatering, Floor coverant, finished, and other scheme shall be as described in Contain interior 3.15.3.1 Finish / newification.

PASSING A COMPAREMENT: The passenger compart end a 11 r -3.1 .3.1.1

vide accorrodation, as shown on Pigure 1-2 are 1-3. in the standard configuration, the passenger comportunit like while between are rest, and are the passenger comportunit like child be 20 inches wide between are rest, and are the passenger configuration will be at least 1 inches. The lift-(3.13-D17) hum clear ceiling helint to the main cabin and il ce at least o inche. .

PLOOL COV J.ING: Floor covering throughout the direct at 3.14.3.2 shall be as specified by the Interior Finish pecific tion. Acid-resistant paint shall be applied to the setal under-(3.15-30)

urface of the floor and to the structure only in the latetory and buffet areas extending 20 inches forward, not and leterally as well a above and below the floor. Floor

covering shall be installed to restrict creeping and curling. (3.15-35)A readily removable section of the carbetin, in the entry days shall be provided.

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CONVAIR PAGE 111 ANALYSIS 4 -----REPORT NO. ZD-22-003 SAN DEL PREPARED BY MODEL 22 CHECKED BY DATE_4-20-50 REVISED BY Rev. 1-12-59 FURNISHINGS AND EQUIPMENT (Cont) 3.19 TRIM: Interior trim lining throughout the aircraft shall be 3.19.3.3 of replaceable and of flame-resistant/material as specified by the Interior Finish Specification. Interior trim shall be of modular construction no longer (longitudinally) than ll feet. Carpeting shall be provided on side walls of cable /138 interior extending approximately ten inches up the walls. FROST INSULATION: It shall be a design objective to prevent 3.19.3.3.1 condensation of moisture of any interior surfaces under any flight conditions. In any event condensation shall not drip into the interior of the airplane. SOUNDPROOFING: See Paragraph 3.7.1.1.1. 3.19.3.4 CURTAINS: All paybenger compartment windows shall be pro-3.19.3.5 vided with glare control. Each passenger coat compartment opening shall be curtained. Curtain material shall be as specified in the Finish Specification. HAT RACKS. Overhead hat racks shall be installed extending the full leight of the passenger compartment except in the 3.19.3.6 area of the atowage bins. They shall be sufficiently rigid to support passenger walking in the aisle in rough weather. The racks shall be designed for a stowage load of one pound per lineal inch and an additional load of 170 pounds applied at each third row of seats. Stowage bins, to break the continusty of the hat racks, shall be installed in four loca-tions on each side of the aisle. A door, or doors, shall be provided for each bin. FIRE EXTINGUISHING EQUIPMENT 3.19.4 FIRE-EXTINGUISHING SYSTEM: Two "HRD"-type, two-shot (main and reserve) fire-extinguishing systems shall be installed 3.19.4.1 to extinguish fires in nacelle areas, both in flight and on the ground, and shall conform to the requirements of CAR. The complete installation shall consist of two independent systems; one for the right hand propulsion systems, and one for the left hand propulsion systems. Fire extinguishing agent shall be bromo-tri-fluormethane. The containers shall be charged with the extinguishing agent and nitrogen. A pressure gage shall be provided at each fire extinguishing agent container. The heating and venti-lating systems shall be designed so that entry of discharged

fire extinguishing agent into the occupied areas will not

be possible.

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3-19	FURNISHINGS AND EQUIPMENT (Cont)
3.19.3.3	TRIM: Interior trim lining throughout the aircraft shall be of replaceable and of flame-resistant material as speci-
(3.19-40)	fied by the Interior Finish Specification. Interior trim shall be of modular construction no longer (longitudinally) than eleven feet.
3.19.3.3.1	FROST INSULATION: It shall be a design objective to prevent
(3.19-54)	any flight conditions. In any event condensation shall not drip into the interior of the airplane.
3.19.3.4	SOUNDPROOFING: See Paragraph 3.7.1.1.1
3.19.3.5	CURTAINS: All passenger compartment windows shall be provided with removable curtains capable of being pulled back clear of the windows, and they shall not interfere with escape hatch operation. Each passenger coat compartment opening shall be curtained. Curtain material shall be as specified in the Finish Specification. Window curtains, wherever practicable, shall be interchangeable.
3.19.3.6	HAT RACKS: Overhead had racks shall be installed, extending the full length of the passenger compartment in the Standard Version.
3.19.4	FIRE EXTINGUISHING EQUIPMENT:
3.19.4.1	FIRE-EXTINGUISHING SYSTEM. Two "HRD" type, two shot (main and reserve) fire-extinguishing systems shall be installed to extinguish fires in nacella areas, both in flight and
(3.19-2)	on the ground, and shall conform to the requirements of CAR. The complete installation shall consist of two independent systems; one for the right hand propulsion systems and one for the left hand propulsion systems. Fire extinguishing agent shall be bromo-tri-fluormethane. The containers shall be charged with the extinguishing agent and nitrogen. A pressure gage shall be provided at each fire extinguishing agent container. The heating and ventilating systems shall be designed so that entry of discharged fire extinguishing agent into the occupied areas will not be possible
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CONVAIR ANALYSIS PAGE 112 PREPARED BY NAN DIEGO REPORT NO Z. -22-003 CHECKED BY MODEL 22 REVISED BY DATE 9-20-56 tev. 3-5-59 3.19 FURNISHINGS AND EQUIPMENT (Cont) 3.19.4.1.1 CONTROLS: A selective-type control system shall be installed which shall allow the extinguishing agent to be directed to the respective nacelles. A switch shall be provided for each nacelle to select either the main or reserve system. Llectrical power for the fire-extinguisher system shall be obtained from the emergency bus. Controls for the fire wall emergency shut-off valves shall be located in such a manner as to require closing of these valves from to operating the extinguishing system for the section concerned. SHUT-OFF VALVES: Shyt-off valves, manually operable from the 3.19.4.1.2 handle and interconnected on the firewall between the wing and nacelle, shall be provided for the fuel and hydraulic systems of each engine. (Reference Paragraphs 3.12 and 3.15.1.6.) EXTINGUISHING AGENT: The supply bottles shall be accessible and removable for recharging and inspection. Bottle pressure gages shall be readily accessible for viewing during pre-3.19.4.1.3 flight inspection. FIRE EXTINGUISHING PROVISIONS: Space provisions for a 12-31-3.19.4.1.4 long capacity (per engine) NACA engine water crash fire extinguishing system shall be made. The space provisions may be made in the wing center section. If so located, the structure shall be designed for the later addition of access door or doors. These space provisions shall be compatible with later installation of center section fuel cells. (Ref. Par.3.5.2.3.) 3.19.4.2 FIRE DETECTION SYSTE GENERAL: D-C operated, transistorized, rate of rise, continuous-type fire detectors shall be installed in the nacelles, including the engine compressor-accessory section and the engine 3.19.4.2.1 burner and turbine sections. The fire warning system shall be such as to minimize false warnings and maintenance. Access shall be provided for maintenance of the fire detector system. 3.19.4.2.2 INDICATORS: Dual-light indicatory for each detector circuit shall be located adjacent to the fire extinguisher discharge switch. A test switch for all detector units shall be located on the control panel. A steady light shall indicate a fire in the compressor-accessory section and a blinking light shall indicate an overheat condition in the burner-turbine section. HAND FIRE EXTINGUISHERS: Four portable hand fire extinguish-3.19.4.3 ers shall be installed as indicated below. Water fire extinguishers shall be winterized, using Walter Kidde 800341 antifreeze or equivalent. 3.19.4.3.1 CO2 EXTINGUISHER: One CO2 extinguisher shall be provided in the pilots' compartment. WATER FIRE EXTINGUISHER: Three water fire extinguishers shall 3.19.4.3.2 be provided; one located in the forward entrance area and two on the forward side of the partition immediately forward of the aft entrance way.

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3.19.4.3.3 Deleted.

CONVAIR PAGE 112 ANALYSIS PREPARED BY DUE O HAG REPORT NO D-22-003 MODEL CHECKED BY REVISED BY DATE 9-20-16 liev. 5-20-3.19 FURNISHINGS AND EQUIPMENT (Cont) 3.19.4.1.1 CONTROLS: A selective-type control system shall be installed which shall allow the extinguishing agent to be directed the respective nacelles. A switch shall be provided for each nacelle to select either the main or reserve system. Electrical power for the fige-extinguisher system shill to obtained from the emergence bus. Controls for the lire will emergency shutoff valves shall be located in such a muner as to require closing of these valves prior to operating the extinguishing system for the section concerned. 3.19.4.1.2 SHUFOFF VALVES: Shatoff valves, manually operable from each handle and interconnected on the fire wall between the wind and nacelle, shalf be provided for the fuel and hydratic systems of each engine. (Reference Paragraphs 3.12 one 3.15.1.6) 3.19.4.1.3 EXTINGUISHING AGENT: The supply bottles shall be accessible and removable for recharging and inspection. Bottle pressure gages shall be readily accessible for viewing during preflight inspection. FIRE EXPLIGUISHING PROVISIONS: Space provisions for a 12 gallon dapacity (per engine) NACA engine water crash fire extinguishing system shall be made. The space provisions may be made in the wing center section. If so located, the structure shall be designed for the later addition of eccent door or doors. These space provisions shall be computable with later installation of center section fuel cells. (181. 3.19.4.1.4 Par. 3.5.2.3) 3.19.4.2 FIRE DETECTION SYSTEM: THERAL: Single loop, discrete sensing, continuous type AOS 3.19.4.2.1 fire detectors shall be installed in the nacelles, including the engine compressor-accessory section and the engine ourner and turbine section. The fire warning system shall be such as to minimize false warnings and maintenance. Access shall be provided for maintenance of the fire detector system. 3.19.4.2.3 INDICATORS: Dual light indicators for each detector circuit shall be located adjacent to the fire extinguisher discharge switch. A test switch for all detector units shall be located on the control panel. A steady light thall indicate a fire in the compressor-accessory section and a blinking light shall indicate an overheat condition in the burgerturbine section. 3.19.4. HAND FIRE EXTINGUISHERS: Four portable hand fire extinguishers shall be installed as indicated below. Water fire extinguishers shall be winterized, using Walter Kidde 2003-1 anti-freeze or equivalent. 3.19.4.3.1 CO2 EXPINGUISHER: One CO2 extinguisher shall be provided in the pilot compartment. 3.19.4.3.2 WATER FIRE EXTINGUISHER: One water fire extinguisher shall be provided in each entrance area. 3.19.4.3.3 PASSINGLE COMPARTMENT FIRE EXTINGUISHER: One water fire oxtinguisher shell be provided in the passenger compartment. e was takeng

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MODEL 22
DATE 1-20-18

	DATE 1-20-10
3.19	FURNISHINGS AND LUIPHINT (Cont)
3.19.4.1.1	CONT.OLD: A selective-type control system shall be in talled which shall allow the extinguing a ent to be directed to the respective nacelles. A statch shall be provided for each nacelle to delect either the main or reserve of termethod the provided for each nacelle to delect either the main or reserve of termethod from the energency bus. Controls for the fire wall energency that off valves hall be located in .uc. a conner to require closing of these valves prior to operating the eatinguishing system for the section concerned.
3.19.4.1.2	SHUT OFF VALVE: Shut-off valves, sanually operable from the handle and interconnected on the line wall between the line and nacelle, shall be provided for the fuel and hydraulic systems of each entire. (Reference Paragraphs 3.12 and 3.15.1.6)
3.19.4.1.3 (3.19-6)	ATINGUISHING AGENT: The supply bottles shall be accedable and removable for rechar, in, and inspection. Bottle pressure gages shall be readily accessible for viewing during preflight inspection.
3.19.4.1.4	FIRE EXTINGUISHING PROVISIONS: Space provisions for a 12 gallon capacity (per orgine) NACA engine water crash Fire
(3.19-4)	extinguishing system shall be unde. The opace provisions may be made in the wing center section. If so located, the structure shall be designed for the later addition of acceptable of compatible with later installation of center section fuel cells. (Left Par. 3.5.2.3)
3.19.4.2	FIRE DETECTION SESTEM:
(3.19-7)	GENERAL: DC operated transistenized, rate of rice, continuous type fire detectors shall be installed in the nacelle, including the engine compressor-accessory meetion and the engine burner and turbine section. The fire warning system shall be such as to minimize false warnings and maintenance. Access shall be provided for maintenance of the fire detector system.
3.19.4.2.2	INDICATORS: Dual light indicators for each detector circuit shall be located adjacent to the fire extinuisher discharge switch. A test switch for all detector unit, shall be located on the control panel. A steady light shall indicate a fire in the compressor-accessory section and a blinking light shall indicate an overheat condition in the burner-turbine section.
3.19.4.3	HAND FIRE EXTINGUISHERS: Four portable hand fire extinguish-
(3.19-5)	ers shall be installed as indicated below. Water fire extinguishers shall be winterized, using Walter Kidde 2003/1 antifreeze or equivalent.
3.19.4.3.1	CO2 EXTINGUISHER: One CO2 extinguisher shall be provided in the pilots' compartment.
3.19.4.3.2	WATER FIRE EXTINGUISHED: One later fire extinguisher shall be provided in each entrance area.
3,19,4,3,3	FASS_MUTR COMPARTMENT FIRE EXTINGUISH A: One Later fire ex- tinguisher shall be provided in the parenger compartment
FURNITURE	

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DATE 9-20-56

2		DATE 7-20-70
	3.19.5	FURNISHINGS AND EQUIPMENT (Cont) OXYGEN SYSTEM:
	(3.19-66)	GENERAL: A "Liquid Oxygen Converter" type oxygen system shall be installed for use of the operating crew (pilot, copilot and flight engineer), passengers, nonoperating crew (observer and cabin attendants) and each lavatory. The system shall be in accordance with CAR requirements and shall provide automatic regulators with an automatic release valve with manual override provisions in the event of cabin pressure failure.
The second secon	(3.19-62)	COMPONENTS: System components shall be comprised of a converter with filling provisions, regulators, valves, pressure and quantity gages, metering orifice valve, tubing and mask assemblies.
	(3.19-64)	OXYGEN SUPPLY REQUIREMENTS: The available exygen supply (including portable bottles - see Par. 3.19.5.6) shall provide the following, with a 10 percent additional amount for safety, and based on use of diluter demand masks for the flight crew and continuous flow masks (with rebreathers) for the passengers:
		 1. For passengers: a. Descent from operating altitude to 17,000 feet in 3 minutes. b. 15 minute flight at 17,000 feet and c. 10 percent of passengers and cabin attendants at 14,000 feet for 30 minutes.

E. For crew:

- a. One flight crew member on oxygen at all flight altitudes above 17,000 feet.
- b. Descent from operating altitude to 17,000 feet in 3 minutes.
- c. 15 minutes flight at 17,000 feet and
- d. I hour, 45 minutes flight at 14,000 feet.

PAGE 114 CONVAIR ANALYSIS REPORT NO. ZD-22-003 PREPARED BY A DIVISION OF SENERAL DYNAMICS CORPORATION SAN DIEGO MODEL 22 CHECKED BY DATE 9-20-56 REVISED BY Rev. 1-28-60 (Cont) 3.19 FURNISHINGS AND EQUIPMENT INDIVIDUAL OUTLETS: Individual outlets shall be installed 3.19.5.4 for use with the supplemental oxygen system at the cabin attendants' stations and all passenger locations. Two oxygen outlets shall be provided in each lavatory. Provisions for one additional mask shall be made for each seat row in the main cabin area (three masks for each of the 19 rows on both sides of the airplane) to provide for emergency oxygen for children in arms. The oxygen outlet system for the club area shall be as shown on Figure 3.19-4. 3.19.5.5 MASKS: Provisions shall be made for stowing four crew supplemental masks in the flight station. Provisions shall be made for stowing passenger supplemental masks where one will be accessible for installation and use by each passenger within 15 seconds. The flight crew oxygen system shall OB +A be so arranged that the masks can be continuously plugged in and available for immediate use. Oxygen outlets shall be located at the flight crew stations, at flight observer station, and at all passenger seats and cabin attendants' stations for a coach configuration. The flight crew outlets shall be provided with a tee valve to allow installation of two masks at each station. A "Scottoramic" protective mask shall be installed and connected to one side of the tee outlet at each flight crew station. A supplemental mask shall be provided for each cockpit station and shall be stowed accessible to the station when the occupant of the station is in his normal seated position. Passenger masks shall be of the disposable type. 3.19.5.6 PORTABLE BOTTLES: One portable 11-cubic foot capacity, high pressure protective oxygen unit, including cylinder, full 30 face mask and one pair of asbestos gloves, shall be provided OB in the flight station. Three 7-cubic foot capacity portable oxygen bottles, each with continuous flow regulators and two Scott "KS" continuous flow mask assemblies shall be provided in the passenger compartment. The bottles shall be located as follows: One in the forward left hand hat rack stowage bin, one in the left hand mid-cabin stowage bin and one in the aft left hand stowage bin. 3.19.5.7 SYSTEM CHARGE: The entire oxygen system shall be fully charged and operable at time of delivery. 3.19.6 EMERGENCY RESCUE EQUIPMENT: 3.19.6.1 *FIRST AID KITS: Provisions for stowage of one first aid kit 82_B shall be made in or adjacent to each cabin attendant's station. *Operating items (not included in weight empty of airplane).

REPORT NO. ZD-22-003 PREPARED BY SAN DIEGO CHECKED BY MODEL 22 REVISED BY DATE 9-20-56 Rev.1-15-60 3.19 FURNISHINGS AND EQUIPMENT (Cont) 3.19.5.4 INDIVIDUAL OUTLETS: Individual outlets shall be installed for use with the supplemental oxygen system at the cabin attend-184 ants' stations and all passenger locations. Two oxygen outlets shall be provided in each lavatory. Provisions for one 224 additional mask shall be made for each seat row in the main cabin area (three masks for each of the 19 rows on both sides of the airplane) to provide for emergency oxygen for children in arms. The oxygen outlet system for the club area shall be as shown on Figure 3.19-4. 3.19.5.5 Provisions shall be made for stowing four crew supplemental masks in the flight station. Provisions shall be made for stowing passenger supplemental masks where one will be ac-30B cessible for installation and use by each passenger within 15 184A seconds. The flight crew oxygen system shall be so arranged that the masks can be continuously plugged in and available for immediate use. / Oxygen outlets shall be located at the flight crew stations, at flight observer station, and at all passenger seats and cabin attendants' stations for a coach con figuration. The flight crew outlets shall be provided with a tee valve to allow installation of two masks at each station. A "Scottoramic" protective mask shall be installed and connected to one side of the tee outlet at each flight crew station. A supplemental mask shall be provided for each cockpit station and shall be stowed accessible to the station when the occupant of the station is in his normal seated position. Passenger masks shall be of the disposable type. 3.19.5.6 PORTABLE BOTTLES: One portable 11-cubic foot capacity, high pressure protective oxygen unit, including cylinder, full face 30 mask and one pair of asbestos gloves, shall be provided in the 30B flight station. Three 7-cubic foot capacity portable oxygen bottles, each with continuous flow regulators and two Scott "KS" continuous flow mask assemblies shall be provided in the passenger compartment. The bottles shall be located as follows: one in the forward left hand hatrack stowage bin, one in the left hand mid-cabin stowage bin and one in the aft left hand stowage bin. SYSTEM CHARGE: The entire oxygen system shall be fully 3.19.5.7 charged and operable at time of delivery. 3.19.6 EMERGENCY RESCUE EQUIPMENT: FIRST AID KITS: Provisions for stowage of one first aid 3.19.6.1 kit shall be made in or adjacent to each cabin attendant's station. EMERGENCY AXE: Provisions for one emergency axe shall be 3.19.6.2 made in the cockpit. EVACUATION PROVISIONS: Suitable means shall be provided for 3.19.6.3 assisting rapid evacuation from emergency exits, including 206 assist ropes at exits over the wing and over left and righ hand windows in flight compartment. In addition, crew assist ropes (cont)

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CONVAIR PAGE 114 ANALYSIS REPORT NO ZD-22-003 At- E PREPARED BY MODEL 22 CHECKED BY DATE 9-20-56 REVISED BY Rev. 7-15-59 (Cont) 3.19 FURNISHINGS AND EQUIPMENT 3.19.5.4 INDIVIDUAL OUTLETS: Individual outlets shall be installed for use with the supplemental oxygen system at the cabin attendants' stations and all passenger locations. Two oxygen outlets shall be provided in each lavatory. Provisions for one additional 84A mask shall be made for each seat row (three masks for each seat row on both sides of the airplane) to provide for emergency oxygen for children in arms. MASKS: Provisions shall be made for stowing four crew supplemental masks in the flight station. Provisions shall be made 3.19.5.5 for stowing passenger supplemental masks where one will be ac-DB 84A cessible for installation and use by each passenger within 15 seconds. The flight crew oxygen system shall be so arranged that the masks can be continuously plugged in and available for immediate use. Oxygen outlets shall be located at the flight crew stations, at flight observer station, and at all passenger seats and cabin attendants' stations for a coach configuration. The flight crew outlets shall be provided with a tee valve to allow instablation of two masks at each station. A "Scottoramic" protective mask shall be installed and connected to one side of the tee outlet at each flight crew station. A supplemental mask shall be provided for each cockpit station and shall be stowed accessible to the station when the occupant of the station is in his normal seated position. Passenger masks shall be of the disposable type. 3.19.5.6 PORTABLE BOTTLES: One portable 11-cubic foot capacity, high pressure protective oxygen unit, including cylinder, full face mask and one pair of asbestos gloves, shall be provided in the flight station. Three 7-cubic foot capacity portable oxygen OB bottles, each with continuous flow regulators and two Scott "KS" continuous flow mask assemblies shall be provided in the passenger compartment. The bottles shall be located as follows: one in the forward left hand hatrack stowage bin, one in the left hand mid-cabin stowage bin and one in the aft left hand stowage bin. 3.19.5.7 SYSTEM CHARGE: The entire oxygen system shall be fully charged and operable at time of delivery. 3.19.6 EMERGENCY RESCUE EQUIPMENT: 3.19.6.1 FIRST AID KITS: Provisions for stowage of one first aid kit shall be made in or adjacent to each cabin attendant's station. 3.19.6.2 EMERGENCY AXE: Provisions for one emergency axe shall be made in the cockpit. EVACUATION PROVISIONS: Suitable means shall be provided for 3.19.6.3 assisting rapid evacuation from emergency exits, including 206 assist ropes at exits over the wing and over left and right hand windows in flight compartment. In addition, crew assist ropes

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BIRYLANA PREPARED BY CHECKED BY REVISED BY 3.19

CONVAIR

A DIVISION OF GENERAL DYNAMICS CORPORATION (BAN DIEGO)

PAGE 114 REPORT NO. ZD-22-003 MODEL 22 DATE 9-20-56

Rev. 11-15-57

FURNISHINGS AND EQUIPMENT (Cont)

3.19.5.4

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INDIVIDUAL OUTLETS: Individual outlets shall be installed for use with the supplemental oxygen system at the cabin attendants' stations, lavatories and all passenger locations. Provisions for one additional mask shall be made for each seat row (3 masks for each seat row on both sides of the airplane) to provide for emergency oxygen for children in arms.

3.19.5.5

MASKS: Provisions shall be made for stowing four crew supplemental masks in the flight station. Provisions shall be made for stowing passenger supplemental masks where one will be accessible for installation and use by each passenger within 15 seconds. The flight crew oxygen system shall be so arranged that the masks can be continuously plugged in and available for immediate use. Oxygen outlets shall be located at the flight crew stations, at flight observer station, and at all passenger seats and cabin attendants' stations for a coach configuration. One oxygen outlet shall be provided in each lavatory. The flight crew outlets shall be provided with a tee valve to allow installation of two masks at each station. A "Scottoramic" protective mask shall be installed and connected to one side of the tee outlet at each flight crew station. A supplemental mask shall be provided for each cockpit station and shall be stowed accessible to the station when the occupant of the station is in his normal seated position. Passenger masks shall be Puritan #1040 disposable type-or equivalent.

3.19.5.6

PORTABLE BOTTLES: Two portable low pressure protective oxygen units, including cylinder, full face mask and asbestos gloves shall be installed in the flight station. Three 310-liter portable oxygen bottles with demand regulators and masks shall be provided, two of which shall be located in the aft coat compartment and one of which shall be located in the forward coat compartment.

3.19.5

SYSTEM CHARGE: The entire oxygen system shall be fully charged and operable at time of delivery.

3.19.6

EMERGENCY RESCUE EQUIPMENT:

3.19/6.1

FIRST AID KITS: Provisions for stowage of one first aid kit shall be made in or adjacent to each cabin attendant's station.

3.19.6.2

EMERGENCY AXE: Provisions for one emergency axe shall be made in the cockpit.

3.19.6.3

EVACUATION PROVISIONS: Suitable means shall be provided for assisting rapid evacuation from emergency exits, including assist ropes at exits over the wing, and at the forward main entrance door, and noninflatable escape chutes

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A DIVISION OF SERENAL DINAMICS CORPORATION
SAN DIEGO

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3.19	FURNISHINGS AND EQUIPMENT (Cont)
3.19.5.4	INDIVIDUAL OUTLETS: Individual outlets shall be installed for use with the supplemental oxygen system at the cabin attendants' stations, lavatories and all passenger locations.
3.19.5.5 (3.19-58) (3.19-61) (3.19-69)	MASKS: Provisions shall be made for strwing four crew supplemental masks in the flight station. Provisions shall be made for stowing passenger supplemental masks where one will be accessible for installation and use by each passenger within 15 seconds. The flight crew oxygen system shall be so arranged that the masks can be continuously plurred in and available for immediate use. Oxygen outlets shall be located at the flight crew stations, at flight observer station, and at all passenger seats and cabin attendents stations for a coach configuration. One oxygen outlet shall be provided in each lavatory. The flight crew outlets shall be provided with a tee valve to allow installation of two masks at each station. A "Scottoramic" protective mask shall be installed and connected to one side of the tee outlet at each flight crew station. A supplemental mask shall be provided for each cockpit station and shall be stowed accessible to the station when the occupant of the station is in his normal seated position. Passenger masks shall be Puritan #1040 disposable type or equivalent.
3.19.5.6	PORTABLE BOTTLES: Two portable low pressure protective oxygen units, including cylinder, full face mask and asbestos gloves shall be installed in the flight station. Three 310-liter portable oxygen bottles with demand regulators and masks shall be provided, two of which shall be located in the aft coat compartment and one of which shall be located in the forward coat compartment.
3.19.5.7	SYSTEM CHARGE: The entire oxygen system shall be fully charged and operable at time of delivery.
3.19.6	EMERGENCY RESCUE EQUIPMENT:
3.19.6.1	FIRST AID KITS: Provisions for stowage of one first aid kit shall be made in or adjacent to each cabin attendant's station.
3.19.6(2	EMERGENCY AXE: Provisions for one mergency axe shall be made in the cockpit.
3.19/6.3	EVACUATION PROVISIONS: Suitable means shall be provided for assisting rapid evacuation from emergency exists, including assist ropes at exits over the wing, and at the forward main entrance door, and noninflatable escape chutes

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3.19 FURNISHINGS AND EQUIPMENT (Cont)

shall be provided at the forward main entrance door, and noninflatable escape chutes at each galley service door. One inflatable escape slide shall be installed and stowed adjacent to
each passenger entry door. The design objective for the installation shall be such that the chute (starting from the stowed
position) can be operated by the attendant and available for
use in ten seconds maximum time, and the installation shall be
such as to withstand 60 mph winds acting against the sides of
the chute in the extended position. These items are included
in Useful Load - Emergency Equipment. The installation provisions including inflation equipment are included in weight
empty. One bilingual, lighted "Exit" sign (English and Spanish)
shall be installed at each main extrance door and service door;
and one bilingual, lighted "Emergency Exit" sign (English and
Spanish) shall be installed at each of the two emergency exits.

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PAGE 115A REPORT NO MODEL

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TEMPERATURE MEASUREMENT PLANE

MEASUREMENT ZONE

INSIDE CONTOUR

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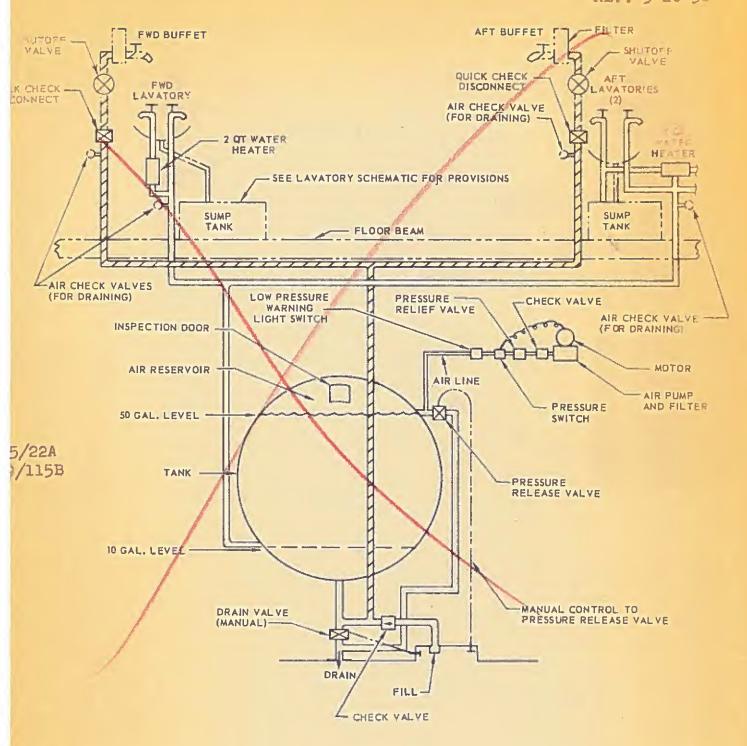
"Free air temperature" is temperature measured away from the direct influence of supply air jet temperatures. The limiting temperature variations shall be applicable NOTE: 1.

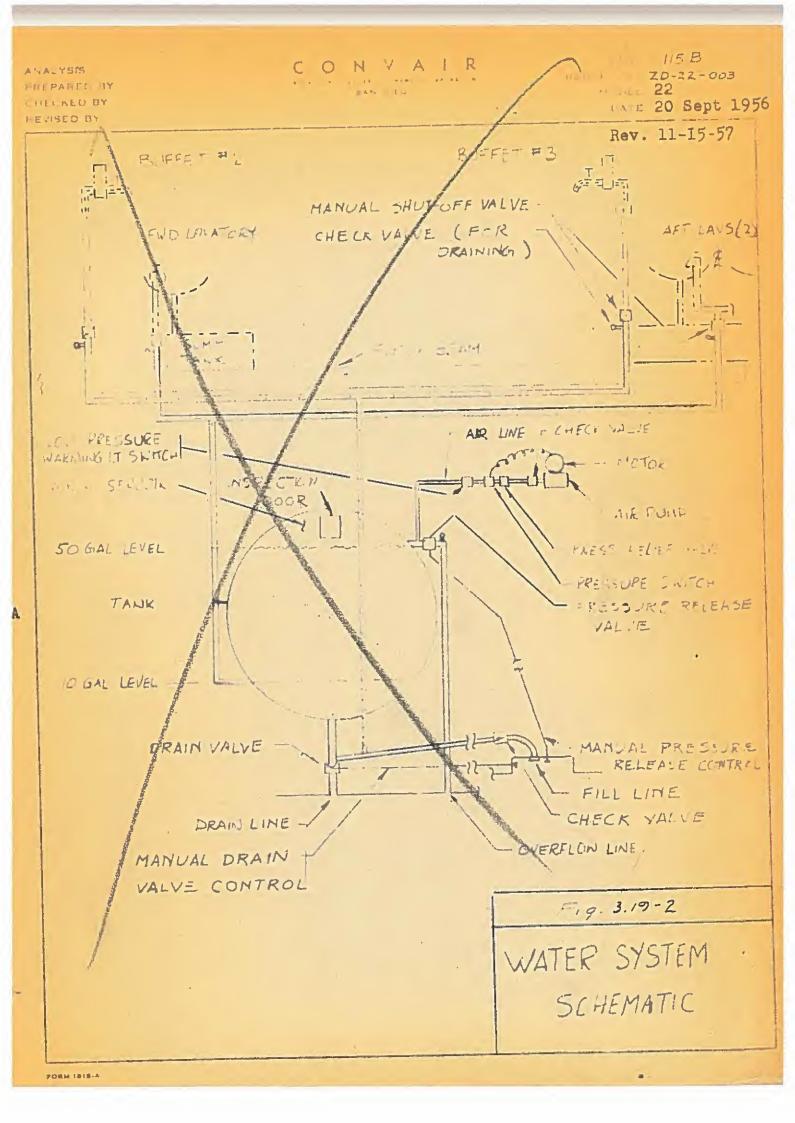
2. only to an airplane carrying no passengers.

FIGURE 3.19.

ANALYSIS PAGE 15A PREPARED BY REPORT NO -CHECKED BY MODEL REVISED BY DATE TEMPERATURE MEASUREMENT MEASUREMENT ZONE INSIDE CONTOUR 48.0 1.0 "Free air temperature" is temperature measured away from the direct influence of supply air jet temperatures. The limiting temperature variations shall be applicable NOTE: only to an airplane carrying no passengers. FIGURE 3.19 PORM 1818 -4

PAGE 115b REPORT NO. ZD-22-003 MODEL 22 DATE 9-20-56 REV. 5-20-58





CONVAIR PAGE 115 8 ANALYSIS PREPARED BY A SMOLE SAN THESO MODEL CHECKED BY REVISED BY 7-30-56 VENT OVER FLOW POTABLE WATER TANK 8 GAL. LEVEL L.H. LAYATORY P.H. LAVATOR BUFFET TOILET SLIMP SEE LAYATORY PLUMBING SCHEMATIC FOR DRAIN & FLUSH PROVISIONS XIGURE 3.19-2 S DRAIN VALVEFILLE DRAIN FILL GUARR OVERFLOW SHUTOFF VALVE AFT WATER SYSTEM-SCHEMATIC FWD WATER SYSTEM IDENTICAL EXCEPT OMIT ONE LAVATORY 18 2 Marin - 8-x PORM IRIS-A

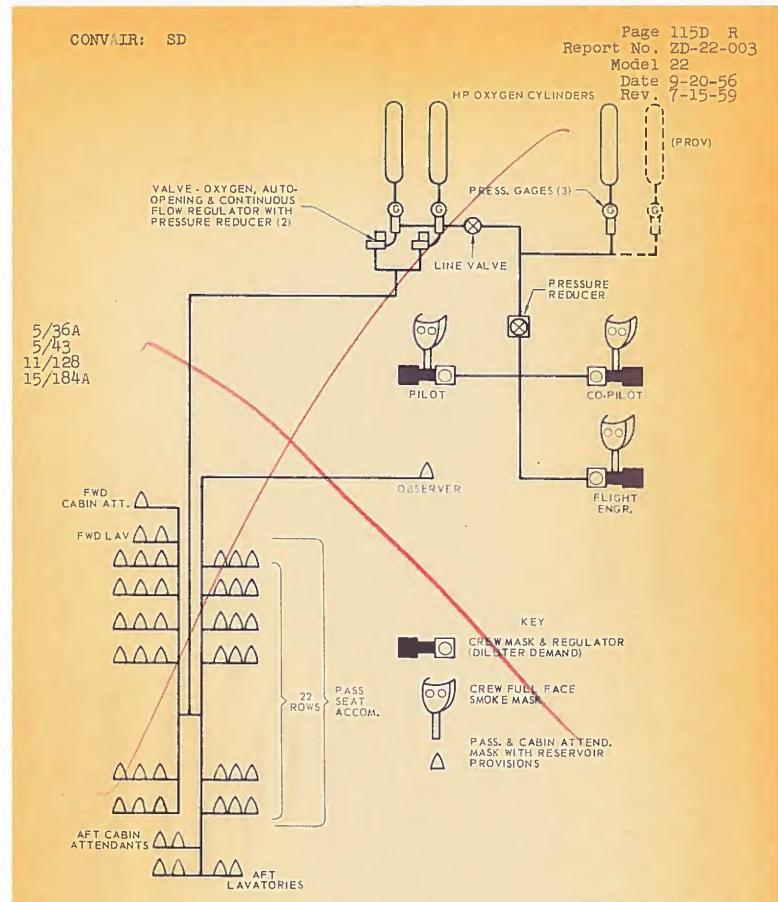
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DATE

6-12-56 FRESH WATER FLUSH (GROUND SERVICE) TOILET FLOOR SUMP TANK PRESS. EQUALIZER WASTE DRAIN LAVATORY TOILET WATER SYSTEM - SCHEMATIC FIGURE 3.19-39
Ve Beaten 12.52

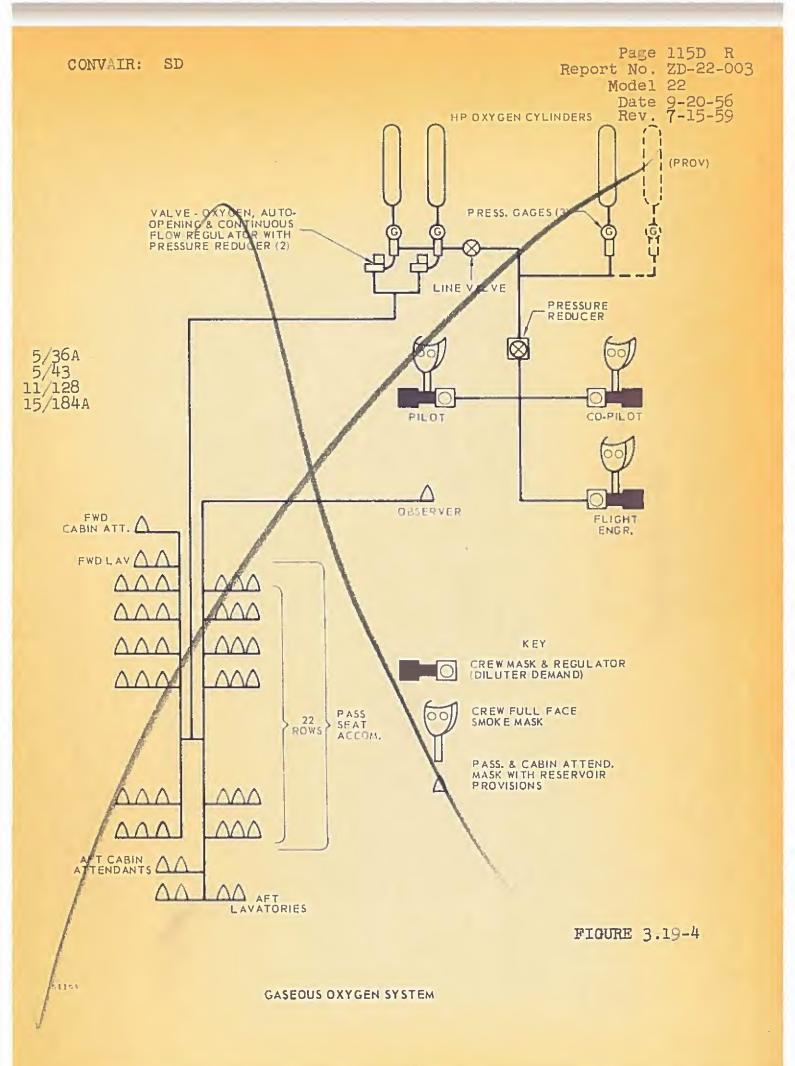


NOTE: Remove page 114a revised 7-15-59 and substitute this page 115D re-revised 7-15-59 in lieu of page 115D revised 11-15-57.

GASEOUS OXYGEN SYSTEM

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FIGURE 3.19-4



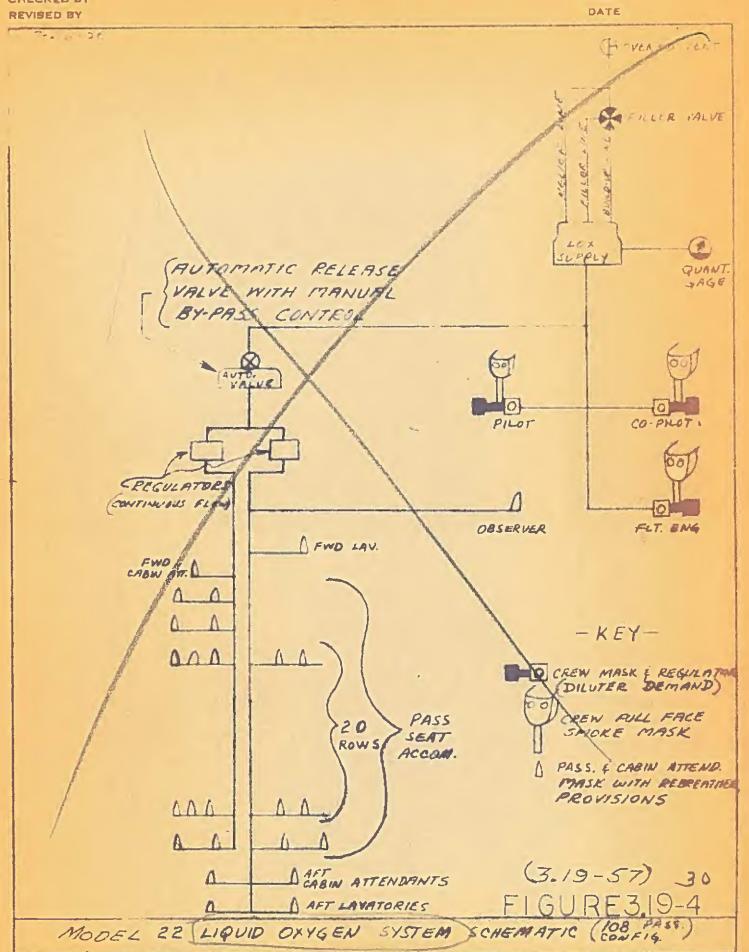
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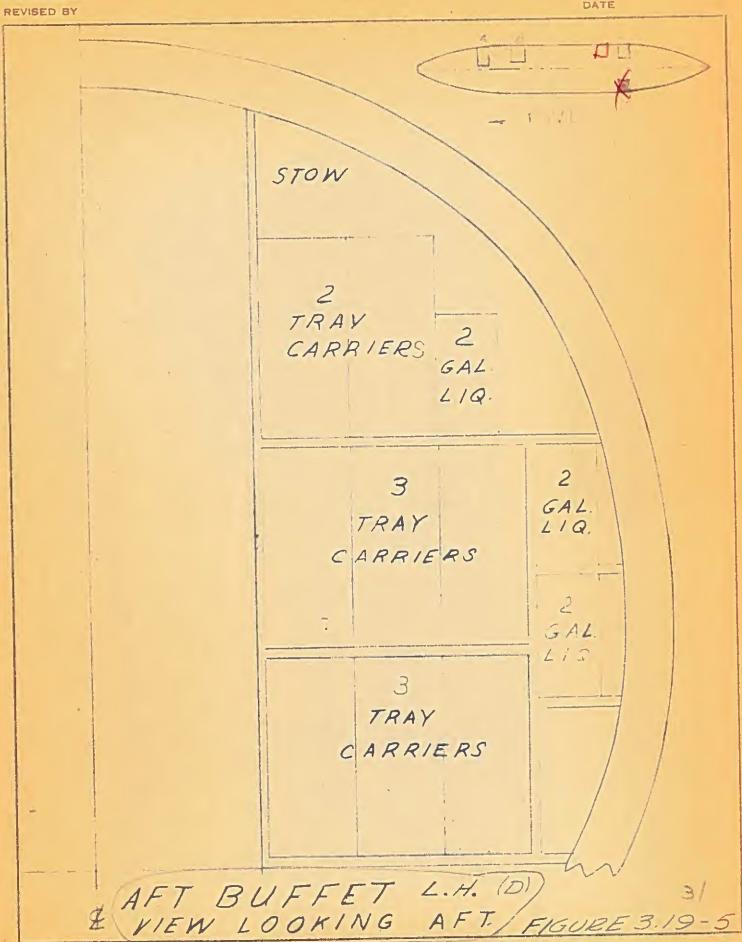
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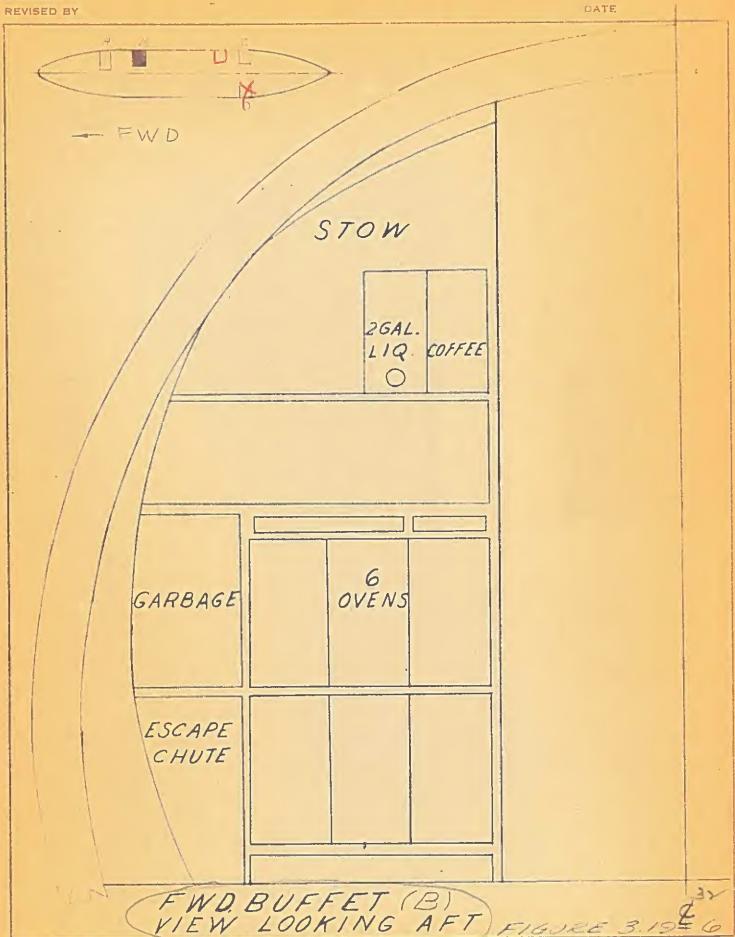


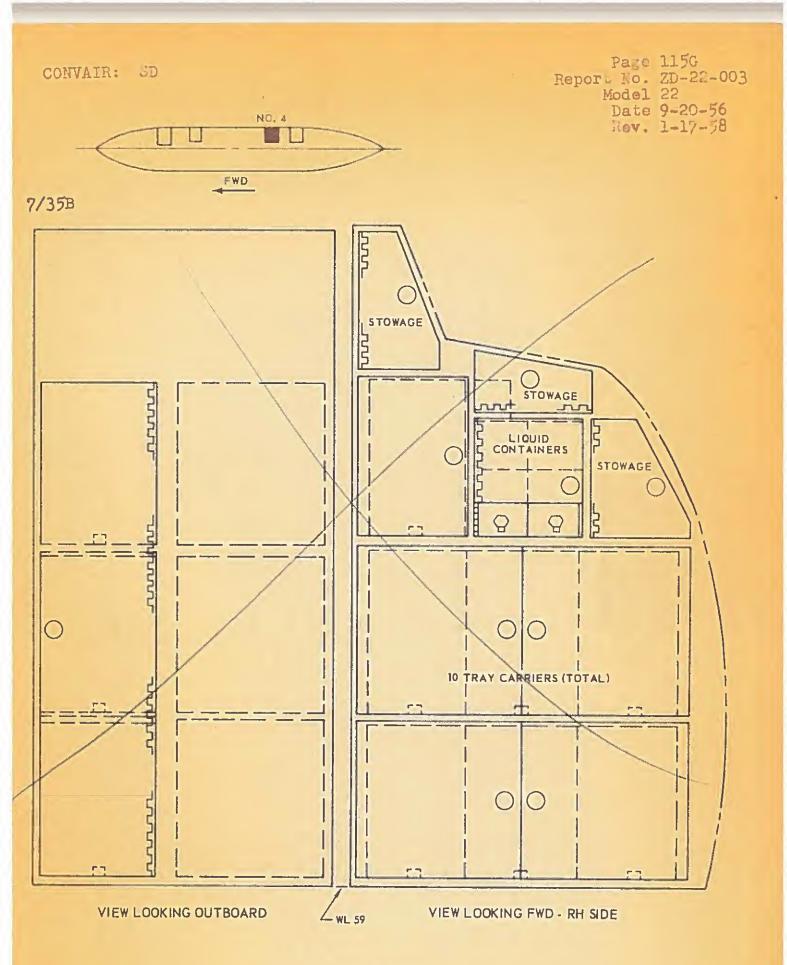
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NO. 4 BUFFET DELTA

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STOW

2GAL LIQ COFFEE

0 0

6 OVENS GARBAGE

ESCAPE CHUTE

AFT BUFFET R.H. (C) VIEW LOOKING AFT. FIGURE 3.

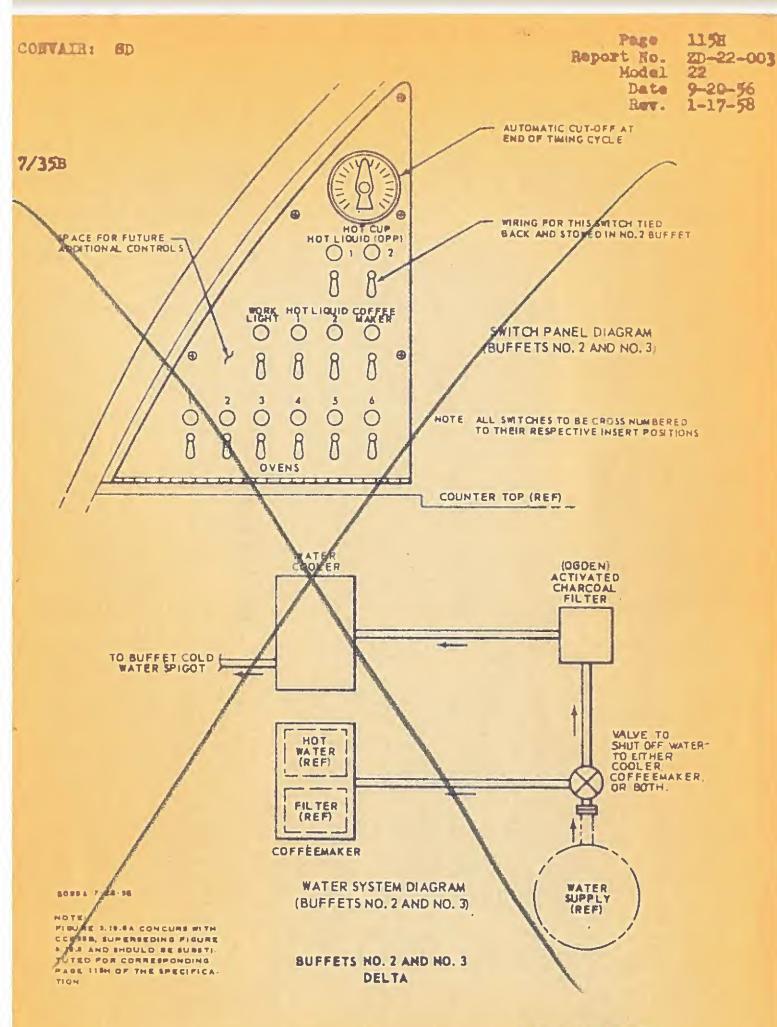
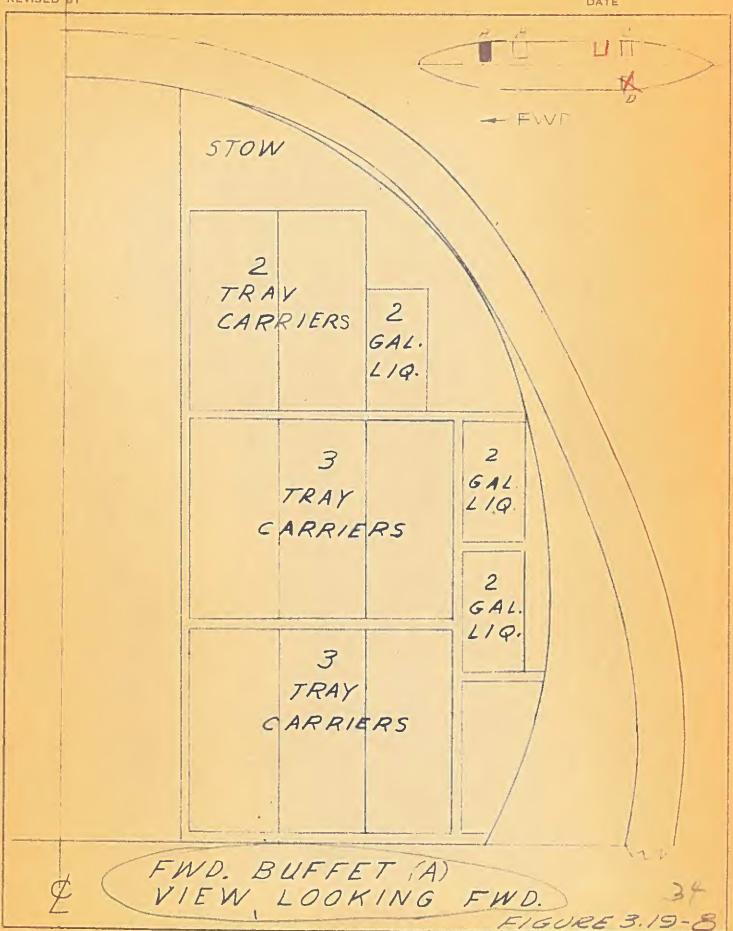


Figure 3.19-64

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A DIVISION OF GENERAL HYNAMICS CORPORATION
BAN DIEGO

PAGE /15 H REPORT NO 20.22 603 MODEL



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Rev. 10-15-58

3.20

AIR CONDITIONING, ANTI-ICING, AND PRESSURIZATION:

3.20.1

AIR CONDITIONING:

3.20.1.1

GENERAL: An air conditioning system shall provide for heating, cooling and ventilating the occupied compartments. The cooling system shall consist of two independent pneumatically-driven Freon systems, using bleed air as source of power. Each system shall include a pneumatic-driven Freon compressor, condensor and an evaporator packaged for installation as a unit. All major components shall be removable for maintenance and servicing with detail design attention given to access and maintenance. Removal and replacement time for the major components shall not exceed that noted in Appendix I-D, SAE ARP 85C or later shall be used as a guide for the Air Conditioning System, except as superseded by any of following specification paragraphs. Buyer shall participate in selection of the major components of the air gonditioning and pressurization system.

3.20.1.2

AIR CONDITIONING CONTROLS: The air conditioning controls shall be grouped together on the flight deck and shall include override controls, instruments and indicators permiting manual operation. A remote reading temperature indicator shall be provided for the main cabin which shall permit reading of temperatures to 2°F with an accuracy of +3°F over the range of 65°F to 85°F. A cabin rate-of-climb indicator, a sensitive cabin altimeter and a cabin differential pressure gage shall be provided to indicate the pressurization conditions. A dual airflow indicator shall be installed to indicate the cabin (RH) and flight deck (LH) compressor airflows. The indicator shall be located on the flight deck. A bearing temperature indicator and a RPM indicator shall be installed on the flight deck for each turbocompressor.

Controls and devices as required to warn and permit crew members to take necessary action in case of system malfunction.

Switches shall be provided as follows:

- a. To open or close the supply air duct to each air conditioning system.
- b. To open or close the ram air ducts which supply unpressurized cabin air.
- c. To open or close the bleed air from each individual engine.
- d. To isolate the right from the left air conditioning equipment.

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C O N V A I R A DIVISION OF GENERAL DYNAMICS CORPORATION

(BAN DIEGO)

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3.20

AIR CONDITIONING, ANTI-ICING, AND PRESSURIZATION:

3.20.1

AIR CONDITIONING:

3.20.1.1

GENERAL: An air conditioning system shall provide for heating, cooling and ventilating the occupied compartments. The cooling system shall consist of two independent pneumatically-driven Freon systems, using bleed air as source of power. Each system shall include a pneumatic-driven Freon compressor, condensor and an evaporator packaged for installation as a unit. All major components shall be removable for maintenance and servicing with detail design attention given to access and maintenance. Removal and replacement time for the major components shall not exceed that noted in Appendix I-D, SAE ARP 85C or later shall be used as a guide for the Air Conditioning System, except as superseded by any of following specification paragraphs. Buyer shall participate in selection of the major components of the air conditioning and pressurization system.

3.20.1.2

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AIR CONDITIONING CONTROLS: The air conditioning controls shall be grouped together on the flight deck and shall include override controls, instruments and indicators permitting manual operation. A remote reading temperature indi-cator shall be provided for the main cabin which shall per-mit reading of temperatures to 2°F with an accuracy of ±3°F over the range of 65°F to 85°F. A cabin rate-of-climb in-dicator a sensitive cabin altimeter and a cabin differen-tial pressure gage shall be provided to indicate the pressurization conditions. A dual airflow indicator shall be installed for each compressor duct; the sensing device shall be located in the fuselege.

Controls and devices as required to warn and permit crew members to take necessary action in case of system malfunction.

Switches shall be provided as follows:

- To open or close the supply air duct to each air conditioning system.
- b. To open or close the ram air ducts which supply unpressurized cabin air.
- C. To open or close the bleed air from each individual engine.
- d. To isolate the right from the left air conditioning equipment.

FORM 1812-A

C O N V A I R A DIVISION OF GENERAL DINAMICS COOPERATION

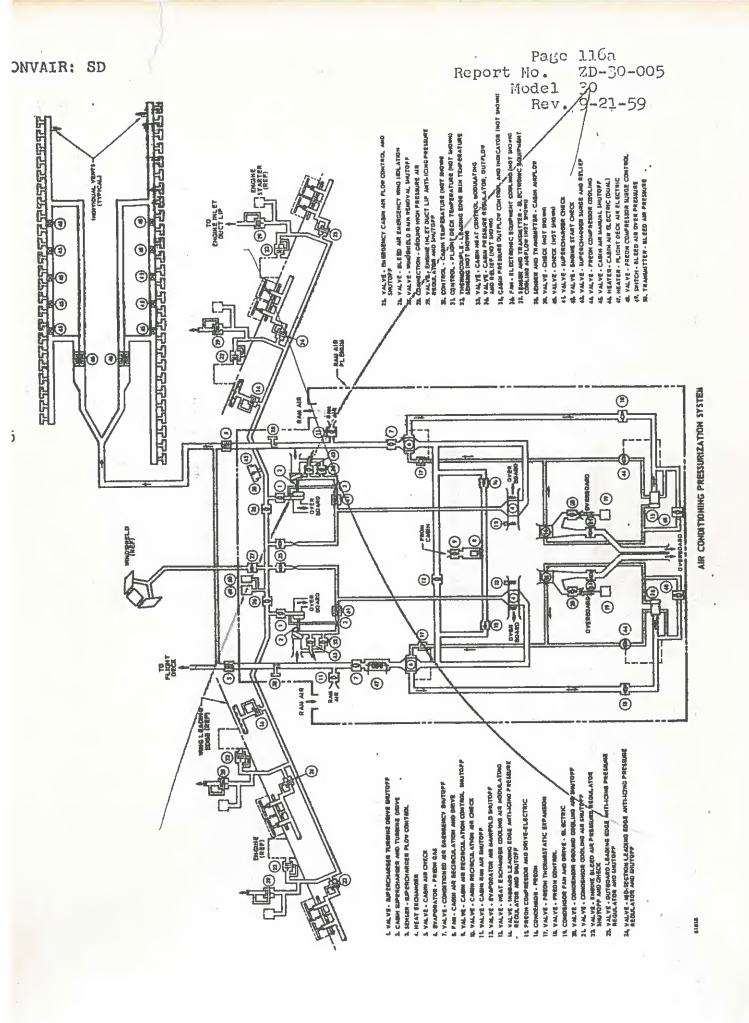
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PAGE II REPORT NO. ZD-22-003 MODEL 22 DATE 9-20-56

3.20 ATR CONDITIONING, ANTI-ICING, AND PRESSUR ZATION: 3.20.1 AIR CONDITIONING: 3.20.1.1 GENERAL: An air conditioning system shall provide for heating, cooling and ventilating the occupied compartments. The cooling system shall consist of two independent pneumatically-driven Freon systems, using bleed air as source of power. Each system shall include a pneumatic-driver Freon dompressor, condensor and an evaporator packaged for installation as a unit. All major components shall be removable for maintenance and servicing with detail design attention (3.20-11)given to access and maintenance. Demoval and replacement time for the major components shall not exceed that noted in Appendix I-D, SAE ARP 85C or later shall be used as a guide for the Air Conditioning System, except as superseded (3.20-4)by any of following specification paragraphs. Buyer shall participate in selection of the major components of the air (3.20-43)conditioning and pressurization system. 3.20.1.2 AIR COMPITIONING CONTROLS: The air conditioning controls shall be grouped together on the flight deck and shall 'nclude override controls, instruments and indicators permitting manual operation. A remote reading temperature indicator shall be provided for the main cabin which shall permit reading of temperatures to 2°F with an accuracy of ±3°F over the range of 65°F to 85°F. A cabin rate-of-climb indi-(3.20-5)cator, a sensitive cabin altimeter and a cabin differential pressure gage shall be provided to indicate the pressure (3.20 ± 6) tion conditions. A dual girflow indicator shall be installed for each compressor duct; the senging device shall be located in the fuselage. Dual indicator for each compressor to read inlet and butlet absolute pressures (inches of 1/g). Controls and devices as required to warn and permit crew members to take necessary action in case of system malfunc-(3.20-9)tion. Switches shall be provided as follows: (3.20 + 8)a. To open or close the supply air duct to each air conditioning system. To open or close the ram air ducts which supply unpressurized cabin air. To open or close the bleed air from each individual engine.

d. To isolate the right from the left air conditioning

equipment.



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- 3.20 AIR CONDITIONING, ANTI-ICING, AND PRESSURIZATION:
- 3.20.1 AIR CONDITIONING:
- 3.20.1.1 GENERAL: An air conditioning system shall provide for heating, cooling and ventilating the occupied compartments. The cooling system shall consist of two independent pneumatically-driven Freon systems, using bleed air as source of power. Each system shall include a pneumatic-driven Freon compressor, condenser and an evaporator packaged for installation as a unit. All major components shall be removable for maintenance and servicing with detail design attention given to access and maintenance. Removal and replacement time for the major components shall not exceed that noted in Appendix 1-D, SAE ARP 85C or later shall be used as a guide for the Air Conditioning System, except as superseded by any of following specification paragraphs. Buyer shall participate in selection of the major components of the air conditioning and pressurization system.
- 3.20.1.2 AIR CONDITIONING CONTROLS: The air conditioning controls shall be grouped together on the flight deck and shall include override controls, instruments and indicators permitting manual operation. A remote reading temperature indicator shall be provided for the main cabin which shall permit reading of temperatures to 2°F with an accuracy of +3°F over the range of 65°F to 85°F. A cabin rate-of-climb indicator, a sensitive cabin altimeter and a cabin differential pressure gage shall be provided to indicate the pressurization conditions. A dual airflow indicator shall be installed to indicate the cabin (RH) and flight deck (LH) compressor airflows. The indicator shall be located on the flight deck. A bearing temperature indicator and a RPM indicator shall be installed on the flight deck for each turbocompressor.

Controls and devices as required to warn and permit crew members to take necessary action in case of system malfunction.

Switches shall be provided as follows:

- a. To open or close the supply air duct to each air condition-ing system.
- b. To open or close the ram air ducts which supply unpressurized cabin air.
- a. To open or close the bleed air from each individual engine.
- d. To isolate the right from the left air conditioning equipment
- *Indication of the Freon compressor inlet and outlet temperature shall be provided by means of a dual-indicator and selector switch which shall provide for selection of "CABIN" or "FLIGHT DECK" Freon system indications.

*Effective Ships 14 and on.

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SAN DIEGO

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- 3.20 AIR CONDITIONING, ANTI-ICING AND PRESSURIZATION (Cont)
- 3.20.1.4.2 EXHAUST AIR: Air shall be exhausted from the lavatory and buffet compartments so that odors will not be admitted to the occupied areas.
- 3.20.1.4.3 WATER VAPOR: The system shall be designed such that suspended water vapor does not appear in the flight station or passenger compartments.
- 3.20.1.5 HEATING SYSTEM: The heating system during normal pressurized flight with a passenger and crew load of 20 persons, shall be capable of maintaining in flight an average occupied compartment temperature of 75°F when the ambient static temperature is as low as -80°F. The system shall meet the requirement through all speed ranges of the aircraft.
- 3.20.1.6 COOLING SYSTEM: The cooling system, in normal pressurized flight, shall be capable of maintaining, in the occupied compartment, an average temperature of 75°F at an outside temperature of 40°F above NACA Standard with a 50 percent relative humidity during all flight conditions. The above performance shall be met with a total airplane occupancy of 115 persons. It shall be permissible to use partial recirculation in the tourist and mixed versions to meet above temperature requirements.
- 3.20.1.6.1 INSTRUMENT COOLING (Effective Ships 14 and on): Cooling provisions shall be installed as required to hold ambient temperature around pilot's and copilot's instrument panel mounted units to a maximum of 50°C.
- AIR CLEANLINESS: All fresh air supplied to the occupied compartments shall be nontoxic and normally contain no contaminants of any kind as a result of having passed through the air conditioning system or any of the machinery or components included therein. Neither the normal nor auxiliary air inlets shall be located to permit the entry of any exhaust gas from any source under normal operating conditions. Each major component of the system shall be designed to preclude the introduction of contaminants into the ventilating airstream in the event of failure of that component. Provisions shall be made to isolate, with shutoff valves, any air conditioning equipment the failure of which could contaminate the occupied compartment.

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3.20	AIR CONDITIONING, ANTI-ICING AND PRESSUE ZATION (Cont)
3.20.1.4.2	EXHAUST AIR: Air shall be exhausted from the lavatory and buffet compartments so that odors will not be admitted to the occupied areas.
3.20.1.4.3 (3.20-38)	WATER VAPOR: The system shall be designed such that suspended water vapor does not appear in the flight station or passenger compartments.
3.20.1.5	HEATING SYSTEM: The heating system during normal pressur- ized flight with a passenger and crew load of 20 persons, shall be capable of maintaining in flight an average oc-
(3.20-37)	cupied compartment temperature of 75°F when the ambient static temperature is as low as -80°F. The system shall meet the requirement through all speed ranges of the aircraft.
3.20.1.6	COOLING SYSTEM: The cooling system, in normal pressurized flight, shall be capable of maintaining, in the occupied compartment, an average temperature of 75°F at an outside temperature of 40°K above NACA Standard with a 50 percent relative humidity during all flight conditions. The above performance shall be not with a total airplane occupancy
(3.20-36)	of 115 persons. It shall be permissible to use partial recirculation in the tourist and mixed versions to meet the above temperature requirements.
3.20.1.7	AIR CLEANLINESS: All fresh air supplied to the occupied compartments shall be nontoxic and normally contain no contaminates of any kind as a result of having passed through the air conditioning system or any of the machinery
(3.20-35)	or components included therein. Neither the normal nor auxiliary air inlets shall be located to permit the entry of any exhaust gas from any source under normal operating conditions. Each major component of the system shall be designed to preclude the introduction of contaminates into the ventilating airstream in the event of failure of that component. Provisions shall be made to isolate, with shutoff valves, any air conditioning equipment the failure of which could contaminate the occupied compartment air.
3.20.1.8 (3.20-33)	OCCUPTED COMPARTMENTS: Individual adjustable air outlets shall be installed as follows: One for each crew member excluding observer, one for each seat in the coach configuration, one for each lavatory and two in each buffet area.
3.20.1.8.1 (3.20-32)	VENTILATION AIR OUTLETS: Outlets will be adjustable to modulate the quantity of air-flow. Leakage at the outlets when closed shall not exceed .2 cfm after 5000 cycles. The outlets shall not be the source of objectionable noise.

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3.20	AIR CONDITIONING, ANTI-ICING AND PRESSURIZATION (COML)
3.20.1.8.2 (3.20-32)	ADJUSTMENT LIMITS: Adjustment of direction will be limited to prevent the direction of air into adjacent seats.
3.20.1.9 (3.20-31)	AIR DISTRIBUTION: The total fresh air supply to the occupied compartments shall be approximately 120 lb/minute at 35,000 feet flight altitude.
(3.20-40)	FLIGHT STATION AIR: The flight station shall be supplied with approximately 10 percent of the total fresh air supply. The temperature and velocity gradients shall approximate those achieved by the cabin distribution system. The air velocity in the cockpit seating area shall not exceed 40 ft/min with all individually controlled outlets closed.
(3.20-39)	Cockpit air temperature variations between head and feet (one inch from floor) of any crew member in the normal seated position shall not be more than 5°F, with deviation subject to tuyer approval.
(3.20-30)	FLOW RATE: The total air flow rate shall be sufficient to assure a complete replacement of cabin air approximately every 2-1/2 minutes at 35,000 feet. The above distribution shall be achieved with the individual vents closed.
3.20.1.10	TEMPERATURE CONTROL. An air temperature control system shall be installed to operate automatically under all flight conditions to supply the required proportions of heated or refrigerated air to maintain the occupied compartments in the selected temperature range. A separate flight compartment temperature control system shall be provided to control the flight compartment temperature independent of the passenger compartment temperature within the capacity of the system.
3.20.1.10.1 (3.20-D2) (3.20-29)	TEMPERATURE SELECTOR: The air conditioning system shall operate automatically to supply conditioned air as required to maintain the temperature at the control sensing element under steady state conditions within ±2°F of that selected. The control sensing element shall be located to sense a truly representative cabin temperature within the forward quarter of the main cabin. The temperature selector shall be graduated in ten increments. The automatic control system shall be rapid in response and critically damped.
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3.20

AIR CONDITIONING, ANTI-ICING AND PRESSURIZATION (Cont)

3.20.2.1

ANTI-ICING OF NONTRANSPARENT AREAS: A heat anti-icing system shall be provided for anti-icing the leading edges of the wings by a bleed air supply from the main engine compressor. Leading edges of the empennage may be anti-iced by electric means. Adequate anti-icing of the radome shall be provided. Switches shall be provided for on-off control of the system. Temperature indicators shall be provided to indicate satisfactory operation of the anti-icing system. Overheat protection shall be provided for structure. The system ducts, duct joints and clamps shall be designed to provide protection against leakage and to permit servicing and inspection. Protective insulation shall be installed around the system ducts. Duct couplings shall also be insulated. Ice protection shall be provided for the engine induction system and engine inlet duct struts and lips. Il important inlet scoops such as cabin inlet, fuel vents, all coolers and the like shall have anti-icing provisions where required. The airplane anti-icing system shall be operative with any two propulsion engines inoperative. Operation of other airplane systems shall not render the anti-icing system ineffective. Required warning lights (push to test) shall be installed to give warning of anti-icing duct failures. Each light shall be operated by a continuous overheat detection system in order to sense bleed air duct leakage or failure.

3.20.2.2

IN-VLIGHT OPERATION: The aircraft with its anti-icing system operative shall be capable of being dispatched into or through maximum continuous icing conditions as defined by OAR 4b 640.

3.20.2.3

GROUND OPERATION: The system components shall be operable on the ground for maintenance and inspection. The system shall be completely operative and heat shall be available to the leading edges at the instant the airplane is airborne.

3.20.2.1

ANTI-ICING, DEFROSTING AND DEFOGGING OF TRANSPARENT AREAS: Electrically heated glass of the conductive film type shall be provided for anti-icing and anti-fogging the pilot's and co-pilot's windshields. Electrically heated glass of the conductive film type shall be provided for defogging the pilot's and co-pilot's side windows. Temperature sensing elements shall be installed in the pilot's and copilot's windshield and side windows to provide temperature control. The windshield anti-icing system design shall be such that electrical or control system failure of one panel shall not affect the anti-icing ability of the other two panels. The flight deck side window defog system design shall be such that electrical or control system failure of one panel shall not affect the defog ability of more than one other side panel. Electric power for anti-icing the pilot's and copilot's windshield shall be considered as essential power.

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3.20 AIR CONDITIONING, ANTI-ICING AND PRESSURIZATION (Cont) ANTI-ICING OF NONTRANSPARENT AREAS: A heat anti-icing sys-3.20.2.1 tem shall be provided for anti-icing the leading edges of the wings by a bleed air supply from the main engine compressor. Leading edges of the empennage may be anti-iced (3.17-D10)by electrical means. Adequate anti-icing of the radome shall be provided. Switches shall be previded for on-off (3.20-3)control of the system. Temperature indicators shall be provided to indicate satisfactory operation of the antiicing system. Overheat protection shall be provided for structure. The system ducts, duct joints and clamps shall be designed to provide protection against leakage and to permit servicing and inspection Protective insulation shall be installed around the system ducts. Duct couplings shall also be insulated. Its protection shall be provided (3.20-D3)for the engine induction system and engine inlet duct struts and lins. All important inlet scoops such as cabin inlet, fuel vents, oil coolers and the like shall have anti-icing provisions where required. The airplane antiicing system shall be operative with any two propulsion engines inoperative. Operation of other airplane systems shall not render the anti-icing system ineffective. Required warning lights (push to test) shall be installed to give warning of arti-icing duct failures. Each light shall be connected to differential switches in the ducting in order to sense failure or leakage. (3.20-21)(3.14-D8)IN-FLIGHT OPERATION: The aircraft with its anti-icing system operative shall be capable of being dispatched into or through maximum continuous icing conditions as defined 3.20.2.2 by CAR 4b 640. GROUND OPERATION: The system components shall be operable on the ground for maintenance and inspection. The system shall be completely operative and heat shall be available 3.20.2.3 to the leading edges at the instant the airplane is airborne. ANTI-ICING, DEFROSTING AND DEFOGGING OF TRANSPARENT AREAS: Electrically heated glass of the conductive film type shall be provided for anti-icing and anti-fogging the pilot's and co-pilot's windshields. Electrically heated glass of 3.20.2.4 the conductive film type shall be provided for defogging the pilot's and co-pilot's side windows. Temperature sensing elements shall be installed in the pilot's and co-pilot's windshield and side windows to provide temperature control. The windshield anti-icing system design shall be such that electrical or control system failure of one panel shall not affect the anti-icing ability of the other two panels. The flight deck side window defog system design shall be such that electrical or control system failure of one panel shall not affect the defog ability of more than one other side panel. Electric power for anti-

icing the pilot's and co-pilot's windshield shall be con-

sidered as essential power.

PAGE 122 ANALYSIS CONVAIR REPORT NO. PREPARED BY A DIVISION OF SERBAL DYNAMICS CORPORATION ZD-22-003 SAN DIEGO CHECKED BY MODEL 22 DATE 9-20-56 REVISED BY Rev. 8-15-60 AIR CONDITIONING, ANTI-ICING AND PRESSURIZATION (Cont) 3.20 ICE DETECTOR SYSTEM: An ice-detector system shall be in-3.20.2.5 stalled with warning lights in the pilot compartment. Two detector units shall be installed, one in the No. 1 pod and one in the No. 3 pod. Automatic/control of the airplane 43 anti-icing system shall be provided; operated by either of the ice detector units. Provisions shall be made for the installation of one ice detector unit in No. 2 pod and one in No. 4 pod. PRESSURIZATION: 3.20.3 DESIGN DIFFERENTIAL PRESSURE: The aircraft shall be de-3.20.3.1 signed and equipped to be pressurized. The maximum normal 38 differential operating pressure shall be 8.3 psi ± .1 psi. 2 At least two separate and independent compressors for supplying pressurized air shall be provided to maintain the normal differential operating pressure. Loss of any single source of pressurized air shall not prevent maintaining cabin differential pressure at 8.3 psi \pm .1 psi with the airplane at 35,000 feet, with any two engines at cruise power. An indicator light shall be provided on the flight engineer's panel to indicate cabin altitude warning. gine management shall not affect overall air conditioning system performance in any normal flight regime including descent, approach and landing. It shall be possible to operate the thermal anti-icing system without creating fluctuations in cabin pressure under any icing conditions. AIR FILTERS: All pneumatic control chambers shall be sup-3.20.3.1.1 plied filtered air. 3.20.3.2 RELIEF VALVE SETTING: The maximum occapied compartment air relief walve setting shall be 8.6 psi. PRESSYRE CONTROLS: The cabin pressure shall be automati-3.20.3.3 cally regulated and controls and instrumentation shall be provided on the flight deck permitting preselection of cabin rates of pressure change and cabin pressure altitude. The cabin altitude preselection shall be accurate within 200 feet at altitudes below 5,000 feet and with normal cabin airflow. Pressure surges during takeoff and landing shall not exceed the selected schedule rate by more than 150 feet per minute. During operation with an automatically regulated change in cabin pressure altitude, deviations from the steady rate of change shall not exceed 50 feet per minute. Transition from (Cont)

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3.20

AIR CONDITIONING, ANTI-ICING AND PRESSURIZATION (Cont)

3.20.2.5

ICE DETECTOR SYSTEM: An ice-detector system shall be installed with warning lights in the pilot compartment. Two detector units shall be installed; one in the No. 1 pod and one in the No. 3 pod. Automatic control of the airplane anti-icing system shall be provided; operated by either of the ice detector units. Provisions shall be made for the installation of one ice detector unit in No. 2 pod and one in No. 4 pod.

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3.20.3 PRESSURIZATION:

3.20.3.1

pesign DIFFERENTIAL PRESSURE: The aircraft shall be designed and equipped to be pressurized. The maximum normal differential operating pressure shall be 8.2 psi. At least two separate and independent compressors for supplying pressurized air shall be provided to maintain the normal differential operating pressure. Loss of any single source of pressurized air shall not prevent maintaining cabin differential pressure at 8.2 psi with the airplane at 35,000 feet, with any two engines at cruise power. An indicator light shall be provided on the flight engineer's panel to indicate cabin altitude warning. Engine management shall not affect overall air conditioning system performance in any normal flight regime including descent, approach and landing. It shall be possible to operate the thermal anticing system without creating fluctuations in cabin pressure under any icing conditions.

3.20.3.1.1

AVR FILTERS: All pneumatic control chambers shall be supplied filtered air.

3.20.3.2

RELIEF VALVE SETTING: The maximum occupied compartment air relief valve setting shall be 8.6 psi.

3.20.3.3

PRESSURE CONTROLS: The cabin pressure shall be automatically regulated and controls and instrumentation shall be provided on the flight deck permitting preselection of cabin rates of pressure change and cabin pressure altitude. The cabin altitude preselection shall be accurate within 200 feet at altitudes below 5,000 feet and with normal cabin airflow. Pressure surges during takeoff and landing shall not exceed the selected schedule rate by more than 150 feet per minute. During operation with an automatically regulated change in cabin pressure altitude, deviations from the steady rate of change shall not exceed 50 feet per minute. Transition from (Cont)

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CONVAIR PAGE 122 ANALYSIS REPORT NO ZD-22-003 A's Old PREPARED BY MODEL 22 CHECKED BY DIE 9-20-56 REVISED BY Rev. 7-15-59 AIR CONDITIONING, ANTI-ICING AND PRESSURIZATION 3.20 ICE -DETECTOR SYSTEM: An ice-detector shall be installed 3.20.2.5 in each engine inlet duct with warning lights in the pilots' compartment and providing automatic control of the engine inlet duct anti-icing system. 3.20.3 PRESSURIZATION: DESIGN DIFFERENTIAL PRESSURE: The aircraft shall be de-3.20.3.1 signed and equipped to be pressurized. The maximum normal differential operating pressure shall be 8.2 psi. At least 188 two separate and independent compressors for supplying pressurized air shall be provided to maintain the normal differential operating pressure. Loss of any single source of pressurized air shall not prevent maintaining cabin differential pressure at 8.2 psi with the airplane at 35,000 feet, with any two engines at cruise power. An indicator light shall be provided on the flight engineer's panel to indicate cain altitude warning. Engine management shall not affect overall air conditioning system performance in any normal flight regime including descent, approach and landing. It shall be possible to operate the thermal antiicing system without creating fluctuations in cabin pressure under any icing conditions. AIR FILTERS: All progratic control chambers shall be sup-3.20.3.1.1 placed filtered air. RELIEF VALVE SETTING: The maximum occupied compartment air 3.20.3.2 relief valve setting shall be 8.6 psi. PRESSURE CONTROLS: The cabin pressure shall be automatically 3.20.3.3 regulated and controls and instrumentation shall be provided on the flight deck permitting preselection of cabin rates of pressure change and cabin pressure altitude. The cabin altitude preselection shall be accurate within 200 feet at altitudes below 5,000 feet and with normal cabin airflow. Pressure surges during takeoff and landing shall not exceed

the selected schedule rate by more than 150 feet per minute. During operation with an automatically regulated change in cabin pressure altitude, deviations from the steady rate of change shall not exceed 50 feet per minute. Transition from

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- 3.20
- AIR CONDITIONING, ANTI-ICING AND PRESSURIZATION (Cont)
- 3.20.2.5
- ICE-DETECTOR SYSTEM: An ice-detector shall be installed in each engine inlet duct with warning lights in the pilots' compartment and providing automatic centrol of the engine inlet duct anti-icing system.
- 3.20.3
- PRESSURIZATION:
- 3.20.3.1
- DECIGN DIFFERENTIAL PRESSURE: The aircraft shall be designed and equipped to be pressurized. The maximum normal differential operating pressure shall be 8.2 psi. At least two separate and independent compressors for supplying pressurized air shall be provided to maintain the normal differential operating pressure. Loss of any single source of pressurized air shall not prevent maintaining cabin differential pressure at 8.2 psi with the airplane at 35,000 feet, with any two engines at cruise power. In gine management shall not affect overall air conditioning system performance in any normal flight regime including descent, approach and landing. It shall be possible to operate the thermal anti-icing system without creating fluctuations in rabin pressure under any icing conditions.
- 3.20.3.1.1
- AIR FILTERS: All progratic control chambers shall be supplied filtered at.
- 3.20.3.2

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- RELIEF VALVE SETTING: The maximum occupied compartment air relief valve setting shall be 8.6 psi.
- 3.20.3.3
- PRESSURE CONTROLS: The cabin pressure shall be automatically regulated and controls and instrumentation shall be provided on the flight deck permitting pre-selection of cabin rates of pressure change and cabin pressure altitude. The cabin altitude pre-selection shall be accurate within 200 feet at altitudes below 5,000 feet and with normal cabin airflow. Pressure surger during take-off and landing shall not exceed the selected schedule rate by more than 150 ft/minute. During operation with an automatically regulated change in cabin pressure altitude, deviations from the steady rate of change shall not exceed 50 feet/minute. Transition from

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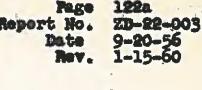
Rev. 11-15-57

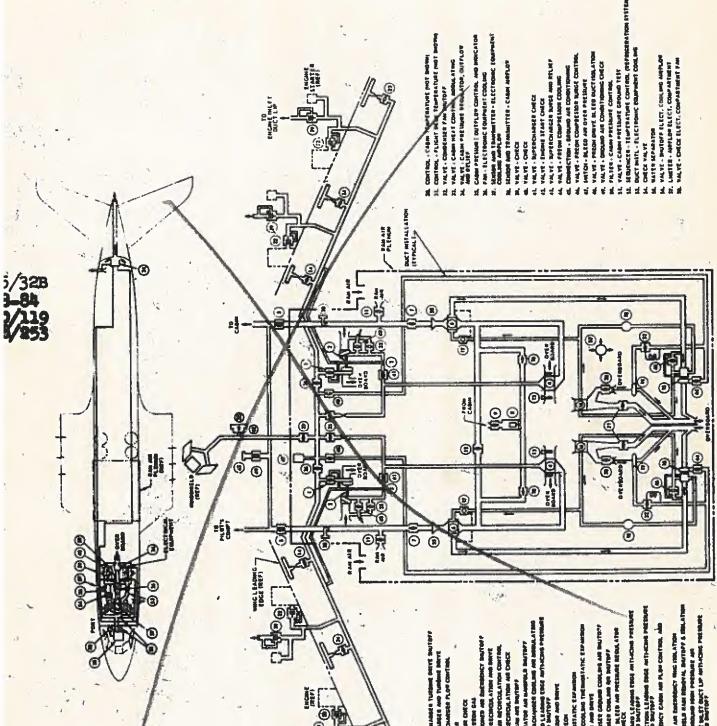
- 3.20
- AIR CONDITIONING, ANTI-ICING AND PRESSURIZATION (Cont)
- 3.20.2.5
- ICE-DITECTOR SYSTEM: An ice-detector shall be installed in each engine inlet duct with warning lights in the pilots compartment and providing automatic control of the engine inlet duct anti-icing system.
- 3.20.3
- PRESSURIZATION:
- 3.20.3.1
- DESIGN DIFFERENTIAL PRESSURE: The aircraft shall be designed and equipped to be pressurized. The maximum normal differential operating pressure shall be 8.6 psi. At least two separate and independent compressors for supplying pressurized air shall be provided to maintain the normal differential operating pressure. Loss of any single source of pressurized air shall not prevent maintaining cabin differential pressure at 8.2 psi with the airplane at 35,000 feet, with any two engines at cruise power. Engine management shall not affect overall air conditioning system performance in any normal flight regime including descent, approach and landing. It shall be possible to operate the thermal anti-icing system without creating fluctuations in cabin pressure under any icing conditions.
- 3.20.3.1.1
- AIR FILTERS: All pneumatic control chambers shall be supplied filtered air.
- 3.20.3.2
- RELIEF VALVE SETTING: The maximum occupied compartment air relief valve satting shall be 8.2 psi.
- 3.20.3.3
- PRESSURE CONTROLS: The cabin pressure shall be automatically regulated and controls and instrumentation shall be provided on the flight deck permitting pre-selection of cabin rates of pressure change and cabin pressure altitude. The cabin altitude pre-selection shall be accurate within 200 feet at altitudes below 5,000 feet and with normal cabin airflow. Pressure surges during take-off and landing shall not exceed the selected schedule rate by more than 150 ft/minute. During operation with an automatically regulated change in cabin pressure altitude, deviations from the steady rate of change shall not exceed 50 feet/minute. Transition from

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AIR CONDITIONING, ANTI-ICING AND PRESSIBIZATION 3.20 ICE-DETECTOR SYSTEM: An ice-detector shall be installed 3.20.2.5 in each engine inlet duct with warning lights in the pilots! compartment and providing automatic control of the engine (3.20-19)Minlet duct anti-icing system. PRESSURIZATION: 3.20.3 DESIGN DIFFERENTIAL PRESSURE: "he dircraft shall be designed and equipped to be pressurized. The max! mun normal 3.20.3.1 differential operating pressure shall be 8.2 ps'. At least (3.20-41)two separate and independent compressors for supplying pressurized air shall be provided to maintain the normal differential operating pressure. Loss of any single source of pressurized air shall not prevent maintaining cable differential pressure at 9.2 psi with the airplane at 35,000 feet, with any two engines at cruise power. Engine rangement shall not affect overall air conditioning system per-formance in any normal flight regime including descent, approach and landing. It shall be possible to operate the thermal anti-icing system without creating fluctuations in cabin pressure under any icing conditions. (3.20-18)AIR FILTERS: Ald pneumatic control chambers shall be 3.20.3.1.1 supplied filtered air. (3.20-15)RELIEF VALVE SETTING: The maximum occupied compartment air relief valve setting shall be 8.2 psi. 3.20.3.2 PRESSURE CONTROLS: The cabin pressure shall be automatically regulated and controls and instrumentation shall be provided 3.20.3.3 on the flight deck permitting pre-selection of cabin rates of pressure change and cabin pressure altitude. The cabin altitude pre-selection shall be accurate within 200 feet at altitudes below 5,000 feet and with normal cabin airflow. Pressure surges during take-off and landing shall not exceed the selected schedule rate by more than 150 ft/minute. During operation with an automatically regulated change in cabin pressure altitude, deviations from the steady rate of change shall not exceed 50 feet/minute. Transition from (3.20-16)

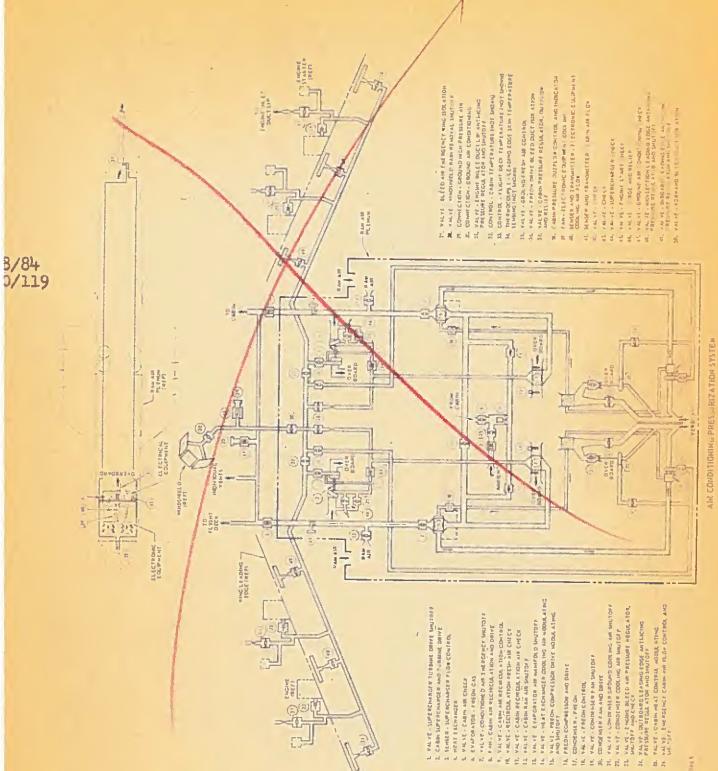




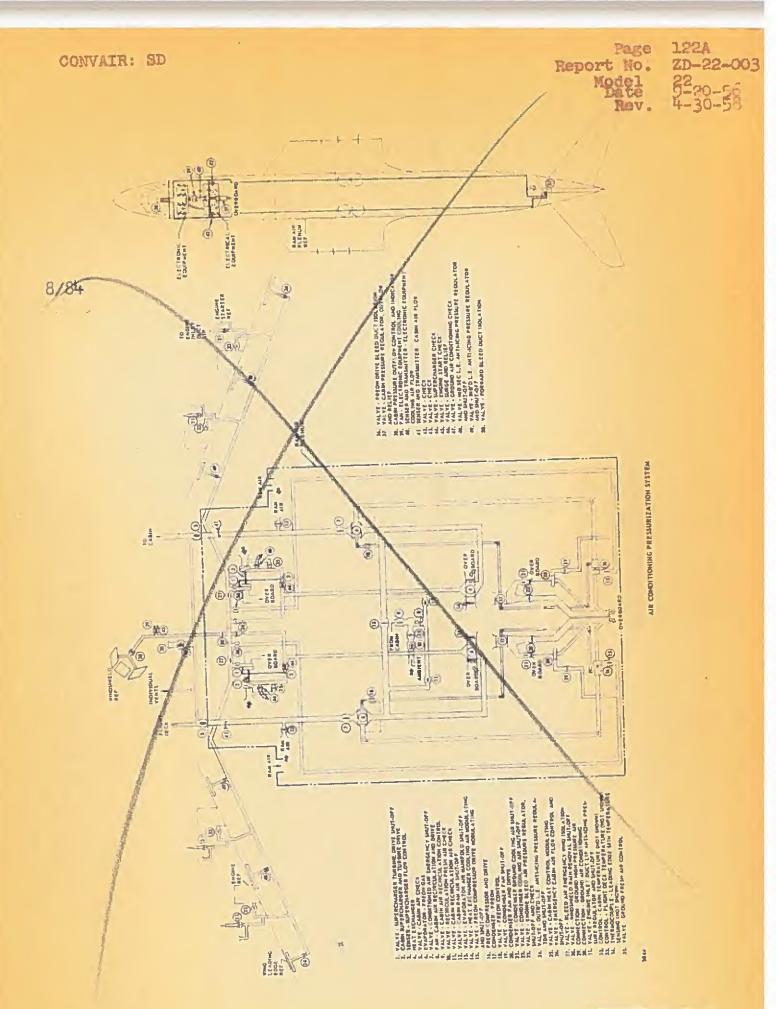
AR CONDITIONING PRESSURIZATION SYSTEM

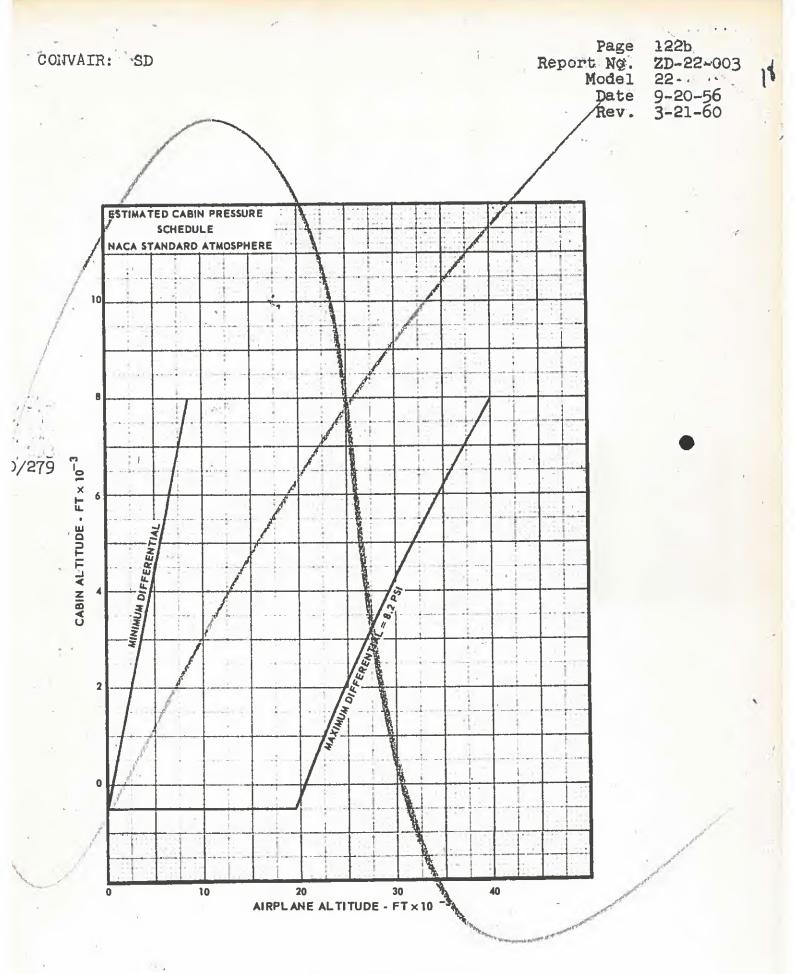
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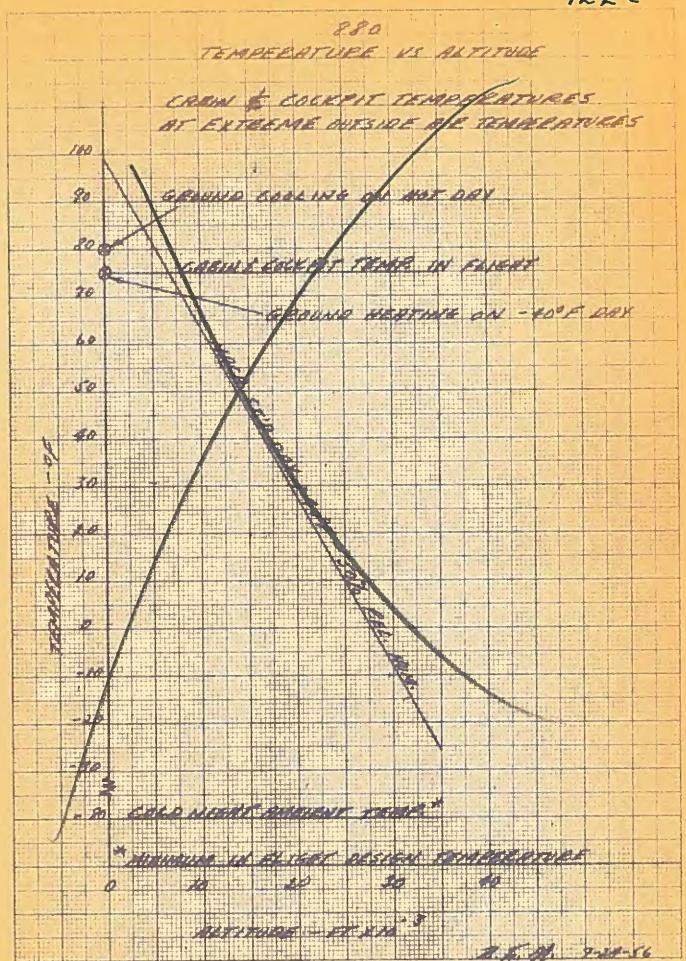
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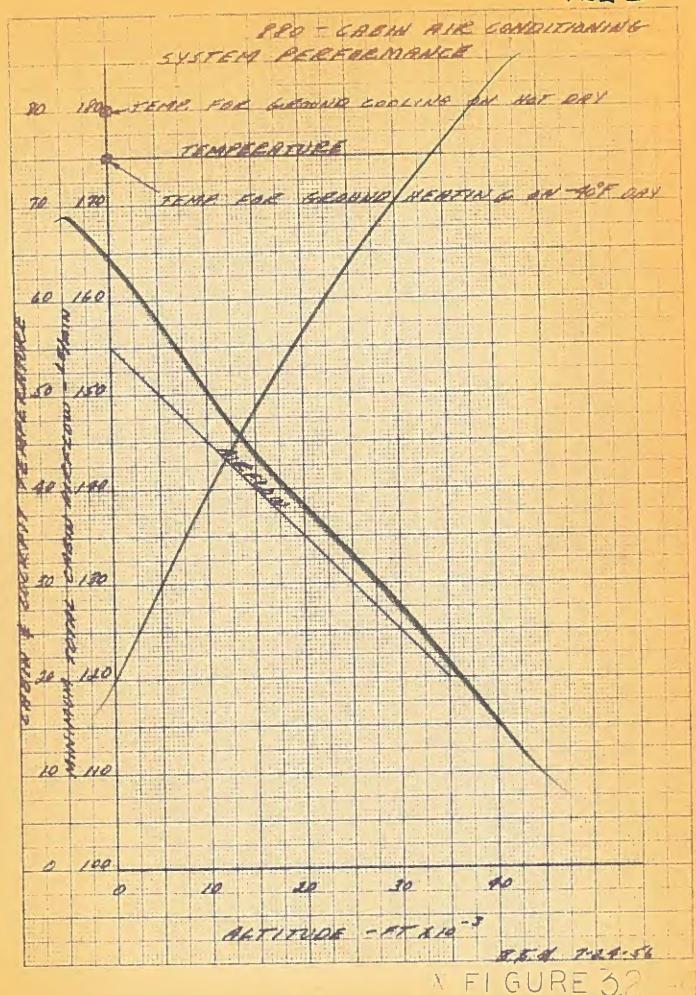


ESTIMATED CABIN PRESSURE SCHEDULE

122B 880 ESTIMATED CABIN PRESSURE SCHEDULE NACA STANDARD RIMOSPHERE 8 6 4 0 0 10 20 30 40 AVEPLANE PATETUDE STX10-5 FIGURE 3.20-2



FI GURE 3.25-3



CONVAIR PAGE 123 ANALYSIS AN SE O REPORT NO. ZD-22-003 PREPARED BY CHECKED BY MODEL / 22 REVISED BY DATE 9-2056 4-30-58 Rev AIR CONDITIONING, ANTI-ICING AND PRESSURIZATION (Cont) 3.20 automatically regulated rate of change to steady regulated 3.20.3.3 cabin pressure altitude or the reverse shall not cause de-Viations from the desired nominal values larger than 100 feet per minute. Controls shall be provided on the flight deak permitting manual control, shutting off, and selection of the pressurizing air sources. Means shall be provided to automatically release cabin pressure on the ground; also an override will be provided to test cabin pressurization on the ground. On the ground, with full compressor output maximum differential pressure will be less than (3.20-17).3 Hg with .2 Hg as a design objective. OPERATION: The aircraft and its air distribution systems 3.20.3.4 shall be quitable for either pressurized or unpressurized operation. DUCTING: Air conditioning system ducting external to the pressurized inselage area and all bleed air ducting shall have structural integrity of the same degree as basic air-3.20.3.5 frame structure this ducting shall be designed so that incorrect install stion which could lead to failure is ex-tremely improbable. Means shall be provided to minimize noise originating in the air flow duct system. PHOTOGRAPHIC: Not required. 3.21 AUXILIARY GEAR: 3.22 TOWING PROVISIONS: Provisions shall be made for towing and pushing the airplane from the nose gear by means of a 3.22.1 removable tow bar. Towing lugs shall be provided on the main landing gear to permit towing forward and backward by means of ropes or cables JACKING PROVISIONS: All external wing and fuselage jack pass shall be removable. Means shall be provided for supporting the airplane to preserve level attitude during 3.22.2 everhaul operations. Jacking points on the wing and fuseflage shall be so located as to permit the landing gear to be fully extended and retracted and to permit removal or installation of wheels, brakes or complete gear with the airplane resting on the jacks. Jack points shall be provided under each nose and main landing gear shock strut,

to permit a flat tire or wheel to be changed with the air-

plane resting on the jack. Extent of jacking provisions shall be designed to an ultimate load factor of two, those on the wing and fuselage for a maximum reaction of maximum reaction of maximum reaction.

mum landing weight, and those on the landing gear for a maximum taxi weight. External fuselage and wing jack pads shall incorporate an AAF Type fitting, on mating surface

to ground jack assembly.

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3.20 AIR CONDITIONING, ANTI-ICING AND PRESSURIZATION (Cont) 3.20.3.3 automatically regulated rate of change to steady regulated (Cont) cabin pressure altitude or the reverse shall not cause deviations from the desired nominal values larger than 100 feet per minute. Controls shall be provided on the flight deck permitting manual control, shutting off, and selection of the pressurizing air sources. Means shall be provided to automatically release cabin pressure on the ground; also an override will be provided to test cabin pressurization on the ground. On the ground, with full compressor (3.20-17)output maximum differential pressure will be 2" Hg. 3.20.3.4 OPERATION: The aircraft and its air distribution systems shall be suitable for either pressurized or unpressurized operation. DUCTING: Air conditioning system ducting external to the 3.20.3.5 pressurized fuselage area and all bleed air ducting shall have structural integraty of the same degree as basic air-frame structure. This ducting shall be designed so that incorrect installation which could lead to failure is ex-(3.20-14)(3.20-12)tremely improbable. Means shall be provided to minimize noise originating in the air flow duct system. 3.21 PHOTOGRAPHIC: Not required. 3.22 AUXILIARY GEAR TOWING PROVISIONS: Provisions shall be made for towing 3.22.1 and pushing the airplane from the nose gear by means of a removable tow bar. Towing tugs shall be provided on the main landing gear to permit towing forward and backward (3.22-4)by means of ropes or cables. JACKING PROVISIONS: All external wing and fuselage jack 3.22.2 pads shall be removable. Means shall be provided for supporting the airplane to preserve level attitude during overhaul operations. Jacking points on the wing and fuse-lage shall be so located as to permit the landing gear to/be fully extended and retracted and to permit removal or installation or wheels, brakes, or complete gear with the airplane resting on the jacks. Jack points shall be provided under each nose and main landing gear shock strut, to permit a flat tire or wheel to be changed with the air-plane resting on the jack. Extent of jacking provisions shall be designed to an ultimate load factor of two, those

on the wing and fuselage for a maximum reaction of maximum landing weight, and those on the landing gear for a maximum taxi weight. External fuselage and wing jack pads shall

incorporate an AAF Type fitting, on mating surface to

ground jack assembly.

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3.23 INTERCHANGEABILITY - REPLACEABILITY (Cont)

Interchangeable Parts (Cont)

Elevators Rudders Tabs

Horizontal Stabilizer Tip Caps

Vertical Stabilizer Tip Caps Complete Landing Gears

Wheels, Brakes, Tires, Tubes and Anti-Skid Devices

Lavatory Mirrors Cabin Floor Rugs

Crew and Passenger Seat and Back Cushions

and Arm Rest Covers

Flap

Spoilers

Landing Gear Door Mechanism Horizontal Stabilizer R/H

Horizontal Stabilizer L/H
*Horizontal Stabilizer Center Section

Wing Anti-shock Bodies, Fairing Sections aft of Ruel bulkhead (in like positions on airplane)

Pod doors

Pod Replaceable Aft Fairing

Bullet Nose (Engine Hub Fairing)

QEC Plumbing and Drain Lines

Flight Engineer's and Third Pilot's Seat Base

Flight Engineer's and Third Pilot's Seat Assembly

Replaceable Parts:

Nose Landing Gear Doors Main Landing Gear Doors

Fuselage Entrance Doors

Fuselage Service Doors

Cargo Doors

Sheet Metal Control Horns, Masts and Brackets

Wing Leading Edge

Fairings

Minor Access and Inspection Doors

Floor Panels

Access Panels

Vertical Stabilizer, Complete Assembly

Sealing Blades, Stabilizer to Fuselage

Wing Anti-Shock Bodies, Forward Fuel-Carrying Sections (In line positions on airplane)

NOTE: ø Flight engineer's seat or third pilot's seat may be reassembled from the other by fastening the seat assembly and a common seat base at the alternate rotation point

> * Horizontal stabilizer center section shall be interchangeable, however some body structure in local areas must be removed in order to replace this assembly. For this reason, demonstration of interchangeability is waived on this item.

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C O N V A I R A BIVISION OF GENERAL DYNAMICS CORPORATION BAN DIEGO

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3.22 AUXILIARY GEAR:

3.22.3 (3.22-5)

MOORING PROVISIONS: Flush type mooring attachments shall be provided. Provisions for mooring on the landing gear struts shall be confined to the tow lugs.

3.22.4

HOISTING PROVISIONS: Provisions shall be made for hoisting into position or handling of assemblies or components weighing more than 150 lb and the individual major assemblies of the airplane with the airplane with the exception of the fuselage. Provisions and procedure shall be provided for emergency hoisting the entire aircraft up to maximum landing weight. The provisions are to be provided reasonably close to the fuselage in the wing are and near the nose section of the fuselage. The procedure shall be included in the maintenance manual. Three sets of equipment shall be furmaintenance manual.

(3.22-2)

maintenance manual. Three sets of equipment shall be furnished as loose equipment with the first airplane delivery. Provisions for holsting the entire airplane not required.

LEVELING PROVISIONS: External leveling points shall be pro-

3.22.5

LEVELING PROVISIONS: External leveling points shall be provided for leveling the sirplane laterally and longitudinally In addition, provisions shall be made for leveling the airplane laterally and longitudinally by means of a plumb bob suspended inside the fuselate. An engraved plate shall be located on the floor and shall be calibrated to indicate correct jacking required to level the airplane, when used with the plumb bob.

3.23

DEFINITIONS:

(3.23-3)

1. Interchangeable Parts: Interchangeable assemblies and parts are those which are capable of being installed, removed or replaced from one airplant to another without fitting other than minor trim and bumping.

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DEFINITIONS (Cont)

Interchangeable Without Alteration: Those parts which are interchangeable from one airplane to another without fabricating operations such as cutting, filing, drilling, reaming, bending, etc.

Interchangeable Doors: Doors interchangeable from one air plane to another with regard to latches, hinges, seals and strikers but which may require trim and minor fitting when interchanged.

Inherently Interchangeable Parts: (Example Control Cables

- Door Latches, etc.) Replaceable Parts: Parts manufactured in a manner employing jigs and fixtures or similar means to assure replaceability. Replaceable parts are distinguished from interchangeable parts in that some drilling and fitting is required during installation.

EQUIPMENT INTERCHANGEABILITY:

Interchangeable Parts: Fuel Tank Access Doors Wing Tips Euffet Sections Emergency Exit Panel Assembly Engine Tail Cowl Instrument Ranels Engine Nose Cowl Horizontal Stabilizer, Leading Edge Wertical Stabilizer, Leading Edge *Horizontal Stab lizer, Complete Assembly Sealing Blades, Stabilizer to Fuselage

Interphangeable Without Alterations: Pilots, Copilots and Flight Engineer Seat Assembly **Passenger Seat Assembly LH and RH Control Column Assembly Rudder Pedal Assembly Control Horns forgings or castings where attached by bolts Engine (quick change) Nose Radome Pilot's Enclosure Glass Cabin Windows Observer's Seat Assembly Cabin Floor Covering

*Complete stabilizer assembly interchangeable airplane to airplane by disassembly of halves at the airplane centerline for removal from the airplane. Reassemble on installations by installing internal tension bolts on an "interchangeability without alteration" basis and installating 1/64-inch larger diameter Huck lock bolts in shear connections.

**NOTE: Passenger seats immediately aft of the escape hatches shall have special outboard arm rests, however, they will be interchangeable in all other respects.

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CONVAIR HA 125 ANALYSIS REPORT NO ZD-22-003 PREPARED BY MODEL CHECKED BY PART 9-20-56 REVISED BY Rev. 7-15-59 DEFINITIONS (Cont) 3.23 3.23 Interchangeable Without Alteration: Those parts which are interchangeable from one airplane to another without fabricating operations such as cutting, filing, drilling, reaming, bending, etc.

Interchangeable Doors: Doors interchangeable from one airplane to another with regard to latches, hinges, seals (Cont) and strikers but which may require trim and minor fitting when interchanged. Inherently Interchangeable Parts: (Example Control Cables - Door Latches, etc.)
Replaceable Parts: Parts manufactured in a manner employing jigs and fixtures or similar means to assure replaceability. Weplaceable parts are distinguished from inter-changeable parts in that some drilling and fitting is required during installation. 3.23.1 EQUIPMENT INTERCHANGEABILITY: 65A Interchangeable Parts: 138 Fuel Tank Access Doors 190 Wing Tips Buffet Sections Emergency Exit Panel Assembly Engine Tail Cowl Instrument Panels Engine Nose Cowl Horizontal Stabilizer, Leading Edge Vertical Stabilizer, Leading Edge *Horizontal Stabilizer, Complete Assembly Sealing Blades, Stabilizer to Fuselage Interchangeable Without Alterations: Pilots, Copilots and Flight Engineer Seat Assembly **Passenger Seat Assembly LH and RH Control Column Assembly Rudder Pedal Assembly Control Horns forgings or castings where attached by bolts Engine (quick change) Nose Radome Pilot's Enclosure Glass Cabin Windows *Complete stabilizer assembly interchangeable airplane to air-

plane by disassembly of halves at the airplane centerline for removal from the airplane. Reassemble on installations by installing internal tension bolts on an "interchangeability without alteration" basis and installating 1/64—inch larger

**NOTE: Passenger seats immediately aft of the escape hatches

will be interchangeable in all other respects.

shall have special outboard arm rests, however, they

diamter Ruck lock bolts in shear connections.

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3.23

DEFINITIONS (Cont)

3.23 (Cont) 2. Interchangeable Without Alteration: Those parts which are interchangeable from one airplane to another without fabricating operations such as cutting, filing, drilling, reaming, bending, etc.

ing, drilling, reaming, bending, etc.
3. Interchangeable Doors: Doors interchangeable from one airplane to another with regard to latches, hinges, seals and strikers but which may require trim and

minor fitting when interchanged.

Inherently Interchangeable Parts: (Example Control

Cables - Door Latches, etc.)

5. Replaceable Parts: Parts manufactured in a manner employing jigs and fixtures or similar means to assure replaceability. Replaceable parts are distinguished from interchangeable parts in that some drilling and fitting is required during installation.

3.23.1

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EQUIPMENT INTERCHANGE ABILITY:

1. Interchangeable Parts: Fuel Tank Access Doors

Fuel Tank Access Doo Tail Cone

Wing Tips

Buffet Sections

Emergency Exit Pane Assembly

-- Engine Tail Cowl Instrument Panels

- Engine Node Cowl Horizontal Stabilizer, Leading Edge Vertical Stabilizer, Leading Edge

Vertical Stabilizer, Leading Edge *Horizontal Stabilizer, Complete Assembly Sealing Blades, Stabilizer to Juselage

2. Interchangeable Without Alterations:

Pilots, Co-pilots and Flight Engineer Seat Assembly
Passenger Seat Assembly IH-and RH
Control Column Assembly
Rudder Pedal Assembly

- Control Horns forgings or castings where attached by

- Engine (Quick Change)
Nose Radome
Pilot's Enclosure Glass
Cabin Windows

*Complete stabilizer assembly interchangeable airplane to airplane by disassembly of halves at the airplane center-line for removal from the airplane. Reassemble on installation by installing internal tension bolts on an "interchangeability without alteration" basis and installing 1/64-inch larger diameter Huck lock bolts in shear connections.

3.23

DEFINITIONS (Cont)

- 3.23. (Cont)
- Interchangeable Without Alteration: Those parts which are interchangeable from one airplane to another without fabricating operations such as cutting, filing, drilling, reaming, bending, etc.
- 3. Interchangeable Doors: Doors interchangeable from one airplane to another with regard to latches, hinges, acals and strikers but which may require trim and minor fitting when interchanged.
- 4. Inherently Interchangeable Parts: (Example Control Cables Door Latches, etc).
- 5. Replaceable Parts: Parts manufactured in a manner employing jigs and fixtures or similar means to assure replaceability. Replaceable parts are distinguished from interchangeable parts in that some drilling and fitting is required during installation.
- 3.23.1

EQUIPMENT INTERCHANGEABILITY:

1. Interchangeable Parts:

(3.23-3)

Fuel Tank Access Doors
Tail Cone
Wing Tips
Buffet Sections
Emergency Exit Panel Assembly
Engine Tail Cowl
Instrument Panels
Engine Nose Cowl

2. Interchangeable Without Alterations:

Pilots, Co-pilots and Flight Engineer Seat Assembly
Passenger Seat Assembly LH and RH
Control Column Assembly
Rudder Pedal Assembly
Control Horns forgings or castings where attached by
bolts
Engine (Quick Change)
Nose Radome
Pilot's Enclosure Glass
Cabin Windows

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3.23

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DEFINITIONS (Cont)

3.23.1 (Cont)

Wing Tip Caps
Ailerons
Elevators
Hudders
Tabs
Horizontal Stabilizer Tips
Vertical Stabilizer Tips
Complete Landing Gears
Wheels, Brakes, Tires, Tubes and Anti-skid details
Lavatory Mirrors
Cabin Floor Augs
Grew and Passenger Seat and Back Cushions and Arm
Rest Covers

3. Interchangeable Doors:

Hose Landing Gear Doors Main Landing Gear Doors Fuselage Entrance Doors Nacelle Doors Fuselage Service Doors Cargo Doors

4. Inherently Interchangeable Parts:

Cable Assemblies
Flaps
Spoilers
Landing Gear Door Mechanism

5. Replaceable Parts:

Sheet Metal Control Horns, Masts and Brackets
Engine Attachments
Wing Leading Edge
Fairings
Minor Access and Inspection Doors
Floor Panels
Access Panels
Vertical Stabilizer, Complete Assembly
Tail Cone

3.23.2 VENDOR PARTS: The Seller shall ascertain that vendor supplied components delivered with the airplane shall not have identical part numbers unless the component contains identical bills of material.

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3.23 DEFINITIONS (Cont)

3.23.1 (Cont) Wing Tip Caps
Horizontal Stabilizer, Complete Assembly
Ailerons
Elevators
Rudders
Tabs
Horizontal Stabilizer Tips
Vertical Stabilizer Tips
Complete Landing Gears
Wheels, Brakes, Tires, Tubes and Anti-akid details
Lavatory Mirrors
Cabin Floor Rugs
Crew and Passenger Seat and Back Cushions and Arm Rest
Covers

3. Interchangeable Doors:

Nose Landing Gear Doors Main Landing Gear Doors Fuselage Entrance Doors Nacelle Doors Fuselage Service Doors Cargo Doors

4. Inherently Interchangeable Parts:

Cable Assemblies
Flaps
Spoilers
Landing Goar Door Mechanism

5. Replaceable Parts:

Sheet Metal Control Horns, Masts and Brackets
Engine Attachments
Wing Leading Edge
Horizontal Stabilizer, Leading Edge
Vertical Stabilizer, Leading Edge
Fairings
Minor Access and Inspection Doors
Floor Panels
Access Panels
Vertical Stabilizer, Complete Assembly

3.23,2

(3.23-2)

VENDOR PARTS: The seller shall ascertain that vendor supplied components delivered with the airplane shall not have identical part numbers unless the component contains identical bills of material.

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APPENDIX I-A

		CUSTOMER FURNISHED - CONVAIR INSTALLED			
	Quan Regd	Description	Manufacturer	Part or Spec.	Total Weight (lb)
		ELECTRONIC E	QUIPMENT		
4 6 28	2 1 1	ATC Transponder Beacon Flight Data Recorder Amplifier	Wilcox Lockheed Air Service Lockheed Air Service	(Model C)	47.6 29.0 3.8
		OXYGEN SYSTEM - (C	USTOMER VENDED	2)	
28	3	High Pressure Oxygen Cylinders and Valve Assembly (107- cubic foot) Including Pres- sure Gages FURNISH	Zep Aero	zc268-111-10	132.0
28	*8	Steel Lavatory Drain Tubes, .032-Gage, Consisting of:			
		2 Fwd Duct Assembly 1 Fwd Duct Assembly 1 Aft Duct Assembly 2 Aft Duct Assembly 1 Aft Duct Assembly 1 Aft Duct Assembly 1 Aft Duct Assembly	DAL DAL DAL DAL DAL DAL	44-574-200 44-574-202 44-575-200 44-575-202 44-575-204 44-575-2	14.4

*Effective Ships 14 and on.

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SAN DIEGO

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APPENDIX I-B

FURNISHINGS

Quan Reqd Description

Manufacturer

Part or Spec.
Number

Equipment to be Furnished and Installed by Customer after Delivery of Aircraft

Tray Carriers

R. E. F.

Model 815

2-Gallon Liquid Containers

Mansfield Prod. Co.

#180-155

Food Warming Ovens

Mansfield Prod. Co.

#206-115

Hot Cups

Helmco-Lacy

#STD-N-VT-115

- 1 Emergency Axe
- 2 First Aid Kits

NOTE: All items listed in Appendix I-B are operating items which are not included in weight empty.

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CONVAIR

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APPENDIX I-A

CUSTOMER FURNISHED - CONVAIR INSTALLED

Quan Reqd Description

Manufacturer

Part or Spec. Number

ELECTRONIC EQUIPMENT

Dual-ATC Transponder Beacon

1 Flight Data Recorder

Lockheed Air Service 400

4001550 (Model C)

1 Amplifier

64

66

35E

Lockheed Air Service 4001551

APPENDIX I-B

FURNISHINGS

Equipment to be Furnished and Installed by Customer after Delivery of Aircraft

Description:

Tray Carriers

R. E. F

Model 815

2-Gallon Liquid Containers

Mansfield Prod. Co.

#180-155

Food Warming byens

Mansfield Prod. Co.

#206-115

Hot Cups

Helmco-Lacy

#STD-N-VT-115

1 Emergency Axe

2 First Aid Kits

NOTE: All items listed in Appendix I-B are operating items which are not included in weight empty.

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Quan

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Part or Spec.

APPENDIX I-A

CUSTOMER FURNISHED - CONVAIR INSTALLED

Regd	Description	Manufacturer	Number
	ELECTRONIC	EQUIPMENT	
1	Dual-ATC Transponder Beacon Flight Data Recorder	Lockheed Air Service	4001550 (Model C)
1	Amplifier	Lockheed Air Service	4001551

APPENDIX I-B

FURNISHINGS

Equipment to be Purnished and Installed by Customer after Delivery of Aircraft.

Description:

Tray Carriers (R. E. F. Model (815) 2-Gallon Liquid Containers	Mansfield Prod. Co.	#180-155
Food Warming Ovens	Mansfield Prod. Go.	#206-115
Hot Cups	Helmoo-Lacy	#STD-N-VT-115

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APPENDIX 1-5

FULNISHINGS

Equipment to be Furnished and Installed by Customer after Delivery of Aircraft.

Description.

ansfield Prod. Co.

206-115

Food Warming Ovens

Mansfield Prod. Co.

1100-115

Hot Cups

Helmco-Lacy

/STD-N-V :-115

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APPENDIX I-C .

POWER PLANE EQUIPMENT

		COMANTI LOUMTPUED	- CONVAIR INSTALL	ED
	Quan Reqd	Description	Manufacturer	Part or Spec. Number
	\$4	Engines complete	Gen. Electric	CJ805-3 E-723F dated 8-10-59
11 50 19B	\$\$4	Engines complete	Gen. Electric	CJ805-3, Phase 1 E-723F dated 8-10-59
19C 63	\$ \$\$4	Engines complete	Gen Electric	CJ805-3A E-723F dated
19D				8-10-59
19E	4	Tachometer Generators		0 0000 0 0001
19F 243	4	(Furnished with Engine) Air Turbine Starters	Gen. Electric AiResearch	2CM9AAH4 359004-10
259A		Starter Shutoff Valves	AiResearch	105492-325-1
271	##4	Starter Shutoff Valves	AiResearch	105492-4
19G 19H	**1	Pressure Ratio Transmitter Pressure Ratio Transmitter	Kollsman Kollsman	A33041-50-025 C33041-50-433
334	#2	Ice Warning Detectors	Goodyear (CARL)	123-00142
334 336				(Type T260-MK12A)
191	##2	Ice Warning Detectors	Goodyear (CARL)	123-00142 (Type T260-MK19A)
		HEL CAMPEN POLITONOM	\	\
	_ <u>F</u>	UEL SYSTEM EQUIPMENT		
	8	Booster Rump	Thompson Prod.	TB-141100-4
		Housing		TB\139900-2
	18	Assembly Drain Valves, consisting of:		TB-139100
		6 Fuel Tank Low Point		
		Valve 12 Fuel Line Trap Valve	Accessory Prod.	771100
	6	Cross-Feed Shutoff Valve	Accessory Prod. Whittaker	771000 131805
	4	Emergency Fuel Shutoff Valve		AV16B1421D
		\$Effective Ships 1 through 10		
	\$	\$Effective Ships 11 and 12		
		\$Effective Ship 13 *Effective Ships 1 through 7		
	*	*Effective Ships 8 and on.		
		#Effective Ships 1 through 10		•
	#	#Effective Ships 11 and on		

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APPENDIX I-C

POWER PLANT EQUIPMENT

			/	
	Quan			Part or Spec.
	Reqd	Description	Manufacturer	Number
1	\$4	Engines complete	Gen. Electric	CJ805-3
)	Į			E-723F dated
∂B				8-10-59
9C	\$\$4	Engines complete	Gen. Electric	CJ805-3, Phase 1
3			/ =====	E-723F dated
3D				8-10-59
ЭE	\$\$\$4	Engines complete	Gen. Electric	CJ805-3A
ЭF				E-723F dated
+3				8-10-59
59A	4	Tachometer Generators		0-10-59
71		(Furnished with Engine)		
∂G	4	Air Turbine Starters	AiResearch	359004-10
)H	4	Starter Shutoff Valves	AiResearch	105492-325-1
34	*4	Pressure Ratio Transmitter	Kollsman	A33041-50-025
36	**4	Pressure Ratio Transmitter	Kollsman	033041-50-433
	2	Ice Warning Detectors	Goodyear (Carl)	Type T260-MK120
			doodycai (oaii)	Type 1200-MR120
	F	UEL SYSTEM EQUIPMENT		
	8	Booster Pump	Thompson Prod.	TB-141100-4
		Housing	2.10.1.p.b.0.1. 11.0d.	TB-139900-2
		Assembly		TB-139100
	18	Drain Valves, consisting of:		12 139100
		6 Fuel Tank/Low Point Valve	Accessory Prod.	771100
		12 Fuel Line Trap Valve	Accessory Prod.	771000
	6	Cross-Feed Shutoff Valve	Whittaker	131805
	4	Emergency Fuel Shutoff Valve	General Controls	AV16B1421D
	12	Tank Shutoff Valve	Whittaker	131805
	4	Overwing Refuel Adapter & Cap	Gabb Spec. Prod.	FC-3500-96
		Cap /		37477-1 and
		Adapter		37477-3
1	4	Fuel Vent Valve	Schulz Tool	20-657-1
	4	Fuel Vent Valve	Schulz Tool	4-357-1
1	4	Fuel Vent Valve	Schulz Tool	5-357-1
	ø4	Fuel Flow Transmitter	Gen. Electric	8TJ59GAM-4
	ØØ4	Fuel Flow Transmitter	Gen. Electric	8TJ59GAM-5
		. /		ozogywan y
		\$Effective Ships 1 through 10		
	\$	\$Effective Ships 11 and 12		1
	\$\$	\$Effective Ship 13		
		*Effective Ships I through 7		
	#-	*Effective Ships 8 through 13		
		<pre>øApriicable to Airplanes 1, 2 and øApriicable to Airplanes 3, 4, 6</pre>	i 5.	-
	ø	øApp:icable to Airplanes 3, 4, 6	and on.	

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APPENDIX I-C

POWER PLANT EQUIPMENT

Quan Req d	Description	Manufacturer	Part or Spec. Number
4	Engines complete	Gen. Electric	CJ805-3 E-723F dated 3-15-57
4 4 */: **2 2	Tachometer Generators (Furnished with Engine) Air Turbina Starters Starter Shutoff Valves Pressure Ratio Transmitter Pressure Ratio Transmitter Ice Warning Detectors UEL SYSTEM EQUIPMENT	AiResearch AfResearch Kollsman Kollsman Goodyear (Carl	359004-10 105492-325-1 A33041-50-025 033041-50-433 3065-1802 Type T260- MK12A
8	Booster Pump Housing Assembly	Thompson Prod	TB-141100-4 TE-139900-2 TB-139100
18	Drain Valves, consisting of: 6 Fuel Tank Low Point Valve 12 Fuel Line Trap Valve	Accessory Prod.	771100 7710 00
6 4 12 4	Cross-Feed Shutoff Valve Emergency Fuel Shutoff Valve Tank Shutoff Valve Overwing Refuel Adapter & Cap Cap	Whittaker General Controls Whittaker Gabb Spec. Prod	131805 AV16B1421D 131805 FC-3500-96
4 4 4 4 4 8 8 4 4 4	Fuel Vent Valve Fuel Vent Valve Fuel Vent Valve Fuel Flow Transmitter Fuel Flow Transmitter Pressure Switch Pressure Switch Pressure Refueling Adapter Cap-Pressure Fuel Servicing (Flush-Type)	Schulz Tool Schulz Tool Schulz Tool Gen. Electric Gen. Electric Hydra. Elect. Hydra. Elect. Parker Aircraft Parker Aircraft	37477-1 & 37477-3 20-657-1 4-357-1 5-357-1 8TJ59GAM-5 40113 40120 1327-575806
	*Effective Ships 1 thru 7 **Effective Ships 8 thru 13 pApplicable to Airplanes 1, 2 ppApplicable to Airplanes 3,4,	e and 5. 6 and on.	

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APPENDIX I-C

POWER PLANT EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd		Manufacturer	Part or Spec.
4	Engines complete	Gen. Electric	CJ805-3 E-723F dated 3-15-57
4	Tachometer Generators (Furnished with Engine)		
4 4 *4 **4	Air Turbine Starters Starter Shutoff Valves Pressure Ratio Transmitter Pressure Ratio Transmitter Ice Warning Detectors	AiResearch AiResearch Kollsman Kollsman Goodyear (Carl	359004-10 105492-325-1 A33041-50-025 033041-50-433)3065-1802 Type T260-MK12
	FUEL SYSTEM EQUIPMENT		1.
8	Booster Pump Housing Assembly	Thompson Prod	TB-141100-4 TB-139900-2 TB-139100
18	Drain Valves, consisting of: 6 Fuel Tank Low Point Valve 12 Fuel Line Trap/Valve	Accessory Prod Accessory Prod	771100 771000
- 6 - 4	Cross-Feed Shutoff Valve Emergency Fuel Shutoff Valve	Whittaker General Con-	131805 AV16B1421D
12 4	Tank Shutoff Valve Overwing Refuel Adapter & Cap	trols Whittaker Gabb Spec.Prod	131805
,	Cap Adapter		FC-3500-96 37477-1 & 37477-3
4	Fuel Vent Valve	Schulz Tool Schulz Tool	20-657-1 4-357-1
4 1	Fuel Vent Valve Fuel Flow Transmitter	Schulz Tool Gen. Electric	5-357-1 8TJ59GAM-5
4 8 8 4	Pressure Switch	Hydra .Electric	40113
8	Pressure Switch	Hydra.Electric	40120
,	Pressure Refueling Adapter	Parker Air- craft	1327-575699
4	Cap-Pressure Fuel Servicing	Parker Air-	
	(Flush-Type)	craft	1327-575806

*Effective Ships 1 thru 7
**Effective Ships 8 thru 13

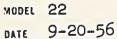
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19F 243 259A 271 19G

APPENDIX I-C

POWER PLANT EQUIPMENT

Quan Reqd	Description	Manufacturer	Part or Spec.
4	Engines complete Tachometer Generators	Gen. Electric	CJ805-3 E-723F dated 3-15-57
4 4 2 <u>F</u>	(Furnished with Engine) Air Turbine Starters Starter Shutoff Valves Pressure Ratio Transmitter Ice Warning Detectors FUEL SYSTEM EQUIPMENT	AiResearch AiResearch Kollsman Goodyear (Carl)	359004-10 105492-325-1 A33041-50-025 3065-1802 Type T260-MK12A
8	Booster Pump Housing Assembly	Thompson Prod.	TB-141100-4 TB-139900-2 TB-139100
6 4 12	Drain Valves, consisting of: 6 Fuel Tank Low Point Valve 12 Fuel Line Trap Valve Cross-Feed Shutoff Valve Emergency Fuel Shutoff Valve Tank Shutoff Valve Overwing Refuel Adapter & Cap	Accessory Prod. Accessory Prod. Whittaker General Controls Whittaker Gabb Spec.Prod.	771100 771000 131805 AV16B1421D 131805
4 4 4 4 4 8 8 4	Cap Adapter Fuel Vent Valve Fuel Vent Valve Fuel Vent Valve Fuel Flow Transmitter Pressure Switch Pressure Refueling Adapter	Schulz Tool Schulz Tool Schulz Tool Gen. Electric Hydra.Electric Hydra.Electric Parker Aircraft	FC-3500-96 37477-1 & 37477-3 20-657-1 4-357-1 5-357-1 8TJ59GAM-5 40113 40120 1327-575699
4	Cap-Pressure Fuel Servicing (Flush-Type) Underwing Automatic Shutoff	Parker Aircraft	1327-575806
4 2 8	Valve Fuel Jettison Shutoff Valve Defuel Valve Pressure Switch - Eng. Main	Schulz Tool Accessor Prod. Whittaker	2-155-61 730600 131805
	Fuel Pump	Aero Instru.	1B2522-9

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CONVAIR A DIVISION OF GENERAL SYNAMICS COSPORATION

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APPRNDIX I-C

POWER PLANT EQUIPMENT

Quan Reqd	Description	Manufactuper	Part or Spec.
veda	peacripoidu	Manuac cuyer	Monther
4	Engines complete	Gen. Electric	CJ805-3 E-723 dated 3/15/57
.4	Tachometer Generators (Furnished with Engine)		
4	Air Turbine Starters	AtResearch	351810
4	Starter Shutoff Valves	AiResearch	105492
4	Pressure Ratio Transmitter	Kollsman	A31351-00-025
5	Ice Warning Detectors	Goodyear (Carl)3065-1802 Type T260-MK12A
H	UKL SYSTEM EQUIPMENT		
-	OLD DIDILET DEGLITADAL		
8	Booster Pump	Thompson Prod.	XTB-141000
	Housing		XTB-139900
	Assembly		XTB-139100
18	Drain Valves, consisting of		
	6 Fuel Tank Low Point		
*-	Valve	Accessory Prod	
	12 Fuel Line Trap Valve	Accessory Prod	.771000
6 4	Cross-Feed Shutoff Valve	Whittaker	131805
4	Emergency Fuel Shutoff Valve	General	AV16B1421B
		Controls	
4	Tank Shutoff Nalve	Whittaker	131805
4	Overwing Refuel Adapter		
	and Cap	Gabb Special Prod.	
-	Cap /		FC-3500-96
	Adapter		37477-1 & 37477-3
4	Fuel Vent Valve	Schulz Tool	20-657-1
4	Fuel Vent Valve	Schulz Tool	4-357-1
4	Fuel Nent Valve	Schulz Tool	5-357-1
₩ 打	Fuel Flow Transmitter	Gen. Electric	
**!	Fuel Flow Transmitter	Gen. Electric	8TJ59GAM-3
8	Pressure Switch	Hydra. Electri	
8	Pressure Switch	Hydra. Electri	
4	Pressure refueling Adapter	Parker Aircraf	t 1327-57699
4	/Cap-Pressure Fuel Servicing	,	
	(Flush-Type)	Parker Aircraf	t1327-57806
4/	Underwing Automatic Shutoff		
A. A.	Valve	Schulz Tool	2-155-61
4/	Fuel Jettison Shutoff Valve	Accessory Prod	730600
28	Defuel Valve Pressure Switch-Eng. Main	Whittaker	131805 1B2522-9
8	Pressure Switch-Eng. Main Fuel Pump	Aéro Instru	TDEDEC-A
/	*Applies to airplanes 1 through **Applies to airplanes 6 through	5	
	Whatten to atthrong o mitorgu		

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APPENDIX I-C

POWER PLANT EQUIPMENT

luan leqd	Description	Manufacturer	Part or Spec. Number
4	Engines complete	Gen. Electric	CJ805-3 E-723 dated 3/15/57
4	Tachometer Generators (Furnished with Engine)		-
4	Air Turbine Starters	AiResearch	351810
4	Starter Shutoff Valves	AiResearch	105492
4	Pressure Ratio Transmitter	Kollsman	A31351-00-025
2	Ice Warning Detectors	Goodyear (Carl)	3065-1802 Type T260-MK12
2	PUEL SYSTEM EQUIPMENT		•
8	Booster Pump	Thompson Prod.	XTB-141000
	Housing		XTB-139900
t.	Assembly		XTB-139100
4	Drain Valves, consisting of:		
	2 Fuel Tank Low Point		
	Valvé	Accessory Prod.	771100
_	2 Fuel Line Trap Valve	Accessory Prod.	771000
6 4 4	Cross-Feed Shutoff Valve	Whittaker	131805
4	Emergency Fuel Shutoff Valve	General Controls	AV16B1421B
4	Tank Shutoff Valve	Whittaker	131805
Ħ .	Overwing Refuel Adapter		
	and Cap	Gabb Special prod	
	Cap		FC-3500-96
	Adapter		37477-1 & 3747
4	Fuel Vent Valve	Schulz Tool	20-657-1
	Fuel Vent Valve	Schulz Tool	4-357-1
444884	Fuel Vent Valve	Schulz Tool	5-357-1
4	Fuel Flow Transmitter	Gen. Electric	8TJ59GAD-1
8	Pressure Switch	Hydra Electric	40113
8	Pressure Switch	Hydra Electric	40120
4 .	Pressure Refueling Adapter	Parker Aircraft	1327-57699
4	Cap-Pressure Fuel Servicing .		
	(Flush-Type)	Parker Aircraft	1327-57806
4	Underwing Automatic Shutoff		
	Valve	Schulz Tool	2-155-61
4	Fuel Jettison Shutoff Valve	Accessory Prod.	730600
2	Defuel Valve	Whittaker	131805
8	Pressure Switch-Eng. Main		
_	Fuel Pump	Aero Instru.	1B25 22- 9
	ruca rump	MOLO AMBULGI	TOEJEETY

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APPENDIX I-C

POWER PLANT EQUIPMENT

Quan Reqd	Description	Manufacturer	Part or Spec. Number
4	Engines complete	Gen. Electric	CJ805-3 E-723 dated 3/15/57
4 4 4 4 4 4	Tachometer Generators (Furnished with Engine) Air Turbine Starters Starter Shutoff Valves Pressure Ratio Transmitter Ice Warning Detectors	AiResearch AiResearch Kollsman Goodyear	351810 105492 A31351-00-025 3065-1802
<u>F</u>	UEL SYSTEM EQUIPMENT		
8	Booster Pump Housing Assembly Drain Valves, consisting of: 2 Fuel Tank Low Point	Thompson Prod.	XTB-141000 XTB-139900 XTB-139100
6 4 4 4	Valve 2 Fuel Line Trap Valve Cross-Feed Shutoff Valve Emergency Fuel Shutoff Valve Tank Shutoff Valve Overwing Refuel Adapter	Accessory Prod. Accessory Rrod. Whittaker General Controls Whittaker	771100 771000 131805 AV16B1421B 131805
44448844 448844	and Cap Cap Adapter Fuel Vent Valve Fuel Vent Valve Fuel Vent Valve Fuel Flow Transmitter Pressure Switch Pressure Refueling Adapter Cap-Pressure Fuel Servicing	Gabb Special Prod. Schulz Tool Schulz Tool Schulz Tool Gen. Electric Hydra Electric Hydra Electric Parker Aircraft	FC-3500-96 37477-1 & 37477-3 20-657-1 4-357-1 5-357-1 8TJ59GAD-1 40113 40120 1327-57699
4	(Flush-Type) Underwing Automatic Shutoff	Parker Aircraft	1327-57806
4 2 8	Valve Fuel Jettison Shutoff Valve Defuel Valve Pressure Switch-Eng. Main	Schulz Tool Accessory Prod. Whittaker	2-155-61 730600 131805
	Fuel Pump	Aero Instru.	1B2522-9

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POWER PLANT EQUIPMENT

	Qty Reqd	Description	Manufacturer	Part or Spec. Number
1	4 4	Engines complete Tachometer Generators	Q.E,-CJ-805-3	E-723 3/15/57
9B 9C 3D 9E	4 4 4 4	(Furnished with Engine) Air Turbine Starters Starter Shutoff Valves Pressure Ratio Transmitter Ice Warning Detectors	AiResearch AiResearch Kollsman Goodyear (CARL)	351810 105492 A31351-00-025 3065-1802 Type T260-MK12A
	F	WEL SYSTEM EQUIPMENT		
	8/	Booster Pump Drain Valves, Consisting of:	Thompson Prod.	XTB-141000
	6 4	2 Fuel Tank Low Point Valve 2 Fuel Line Trap Valve Cross-Feed Shutoff Valve Emergency Fuel Shutoff Valve	Accessory Prod. Accessory Prod. Whittaker General Controls	771100 771000 131805
	4	Tank Shutoff Valve	Whittaker	131805
	44448844 4 4248	Fuel Tank Cap Fuel Vent Valve Fuel Vent Valve Fuel Vent Valve Fuel Vent Valve Fuel Fuel Transmitter Pressure Switch Pressure Switch Pressure Refueling Adapter Cay-Pressure Fuel Servicing (Flush-Type) Underwing Float Automatic Shutoff Valve Fuel Jettison Shutoff Valve Defuel Valve Fuel Quantity Indicator (Repeater) Pressure Switch-Eng. Main Fuel Pump	Schulz Tool Schulz Tool Schulz Tool Gen. Electric Hydra Electric Hydra Electric Parker Aircraft Parker Aircraft Schulz Tool Accessory Prod. Whittaker Aero Instru.	20-657-1 4-357-1 5-357-1 8TJ59GAD-1 40113 40120 1327-575699 1327-575806 2-155-61 730600 131805
	4 4 4 4 4 4	Indicators, Engine Oil Pressure Oil Pressure Transmitter Engine Oil Temperature Indicator Oil Temperature Bulb Oil Pressure Switch Oil Quantity Transmitter (Furnished with Engine) Indicator, Quantity, Engine Oil	U.S. Gauge U.S. Gauge Lewis Eng. Lewis Eng. Hydro-Elec. Simmonds Simmonds	SR-04B ST-104M 162C23 56B3A 1023 381061-01059

CONVAIR ANALYSIS PAGE A-1 PREPARÉD BY SAN DIEGO REPORT NO. ZD-30-005 CHECKED BY MODEL 30 REVISED BY DATE Rev. 12-22-59 APPENDIX I-A BUYER FURNISHED - CONVAIR INSTALLED Total Quan Part or Weight Reqd Description Manufacturer Spec. No. (1b) PROPULSION EQUIPMENT 1.1, Engine, complete (dry) CJ-805-21 Gen.Electric 15,000 Includes items of E-739b standard equipment dated as listed in G.E. 11-28-58 Spec. E-739b dated 11-28-58 **FURNISHINGS** 4 Buffats (including provisions for Byyer furnished items noted in Appendix (I-B) Vacuum cleamer outlets of 115% 400 cycle rating shall be included in the buffets as required. 900.0 Check-off Lists, Nechanical 1 Lighted/ Plastek Inc. 4793 1.0 2 *First Aid Kits 5.0 Crew Nameplate Wolder EBA-1156 Altimeter (Three Pointer-Type) Kollsman 1 0.5 1 671CPL-10-3.8 051) 2 Visor / Sun (Flight Compartment) 1.2 2 Emblem, AAL 2.0 OXYGEN EQUIPMENT Hose, Oxygen Sub-Assy Sierra 232-212) 102 9.0 Goggle, Crew Smoke Sierra 322-01 *Fixed Useful Load Item

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APPENDIX I-C

POWER PLANT EQUIPMENT

1	Qty Regd Description	Manufacturer	Part or Spec.
10	4 Engines complete 4 Tachometer Generators	G.ECJ-805-3	E-723 3/15/57
1691	(Furnished with Engine) 4 Air Turbine Starters 4 Starter Shutoff Valves 4 Pressure Ratio Transmitter 4 Ice Warning Indicator Units	AiResearch AiResearch Kollsman	351810 105492 A31351-00-025
	FUEL SYSTEM EQUIPMENT		
	8 Booster Pump 4 Drain Valves, consisting of:	Thompson Prod.	XTE-141000
	2 Fuel Tank Low Point Valve	Accessory Prod.	771100
	2 Fuel Line Trap Valve 6 Cross-Feed Shutoff Valve	Accessory Prod. Whittaker	771000 131805
1	6 Cross-Feed Shutoff Valve 4 Emergency Fuel Shutoff Valve 4 Tank Shutoff Valve 4 Fuel Tank Cap 4 Fuel Vent Valve 4 Fuel Vent Valve 5 Fuel Flow Transmitter 8 Pressure Switch 8 Pressure Switch 4 Fressure Refueling Adapter 6 Cap-Pressure Fuel Servicing	General Controls Whittaker	131805
Ì	4 Fuel Tank Cap		
	4 Fuel Vent Valve	Schulz Tool Schulz Tool	20-657-1 4-357-1
	4 Fuel Vent Valve	Schulz Tool Gen. Electric	5-357-1 8TJ59GAD-1
	4 Fuel Flow Transmitter 8 Pressure Switch	Hydra Electric	40113
	8 Pressure Switch 4 Pressure Refueling Adapter	Hydra Electric Parker Aircraft	40120 1327-575699
	(Flush Type) Underwing Float Automatic	Parker Aircraft	1327-575806
	Shutoff Valve	Schulz Tool	2-155-61
1	4 Fuel Jettison Shutoff Valve 2 Defuel Valve 4 Fuel Quantity Indicator (Repeate	Accessory Prod. Whittoker	730600 131805
	4 Fuel Quantity Indicator (Repeate	r)	
1	OIL SYSTEM EQUIPMENT		
	4 Indicators, Engine Oil Pressure		
	4 Oil Pressure Transmitter 4 Engine Oil Temperature Indicator	Lewis Eng.	162023
	4 011 Temperature Bulb	Lewis Eng.	56B3A
	4 Oil Pressure Low Warning Switch 4 Oil Quantity Transmitter		1
	(Furnished with Engine) AR Oil Quantity Indicator		

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APPENDIX I-C

POWER PLANT EQUIPMENT

١	Quan Regd	Description	Manufacturer	Part or Spec
10	14 14	Engines complete Tachometer Generators	G.ECJ-805-3	E-723 3/15/57
9	B 4 4 4 4	(Furnished with Engine) Air Turbine Starters Starter Shutoff Valves Pressure Ratio Transmitter Ice Warning Indicator Units	AiResearch AiResearch	351810 105+92
1	1	FUEL SYSTEM EQUIPMENT		
1	8	Booster Pump	Thompson Prod.	XTB-141000
١	6	Drain Valves, consisting of: 2 Fuel Tank Low Point Valve 2 Fuel Line Trap Valve Cross-Feed Shutoff Valve	Accessory Prod. Accessory Prod. Whittaker	771100 771000 131805
I	4 4 4 8	Emergency Fuel Shutouf Valve Tank Shutoff Valve Fuel Tank Cap	Ceneral Controls Whittaker	131805
1	8	Fuel Vent Float Valve, Con- sisting of:		
1	14 14	4 Fuel Tank Vent Valve 4 Pressure Relief Valve Fuel Flow Transmitter Fuel Low Pressure Warning	Schulz Tool Schulz Tool General Electric	4-357-1 5-357-1 8TJ59GAD-1
1	4	Switch Pressure Refueling Adapter	Parker Aircraft	1327-575699
1	4	Cap-Pressure Fuel Servicing (Flush Type)	Parker Aircraft	1327-575806
١	74	Underwing Float Automatic Shutoff Valve	Schulz Tool	2-155-61
١	AR 2 4	Fuel Dump Shutoff Valve Defuel Valve	Whittaker	131805
	i i i i i i i i i i i i	Fuel Quantity Indicator(Repeat OIL SYSTEM EQUIPMENT Indicators, Engine Oil Pressure Oil Pressure Transmitter Engine Oil Temperature Indicat Oil Temperature Bulb Oil Pressure Low Warning Swite Oil Quantity Transmitters (Furnished with Engine) Oil Quantity Indicators	tor Lewis Eng. Lewis Eng.	162C23 56B3A

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POWER PLANT EQUIPMENT

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Qu Re		Description	Manufacturer	Part or Spec Number
4 4		Engines complete Tachometer Generators (Furnished with Engine)	G.ECJ-805-3	E-723 3/15/57
4 4		Air Turbine Starters Starter Shutoff Valves	AiResearch AiResearch	351810 105+92
4	ı	Pressure Ratio Transmitter Ice Warning Indicator Units		
	P	UEL SYSTEM EQUIPMENT	/	
8 4		Booster Pump Drain Valves, consisting of:	Thompson Prod.	XTB-141000
		2 Fuel Tank Low Point Valve	Accessory Prod.	771100
1 6		2 Fuel Line Trap Valve	Accessory Prod.	771000
6		Cross-Feed Shutoff Valve Emergency Fuel Shutoff Valve	Whittaker General Controls	131805 AV16B1421B
4		Tank Shutoff Valve	Whittaker	131805
14		Fuel Tank Cap	WALLOWING	232007
8		Fuel Vent Float Valve, Con-		
		sisting of:		
		4 Fuel Tank Vent Valve	Schulz Tool	4-357-1
Ι.		4 Pressure Relief Valve	Schulz Tool	5-357-1
1 4		Fuel Flow Transmitter	General Electric	8TJ59GAD-1
4		Fuel Low Pressure Warning		
14		Switch Pressure Refueling Adapter	Parker Aircraft	1327-575699
4		Cap-Pressure Fuel Servicing	Parker Allerence	1321-717077
		(Flush Type)/	Parker Aircraft	1327-575806
14		Underwing Float Automatic		-3-1 /1/
		Shutoff Valve	Schulz Tool	2-155-61
	R	Fuel Dump Shutoff Valve		
2	2	Defuel Valvé	Whittaker	131805
1 4	۲	Fuel Quantity Indicator (Repeate	er)	
	U	IL SYSTEM EQUIPMENT		
14		Indicators, Engine Oil Pressure		
14		Oil Pressure Transmitter		
14		Engine Oil Temperature Indicato	r Lewis Eng.	162023
14		Oil Temperature Bulb	Lewis Eng.	56B3A
14	r	Oil Pressure Low Warning Switch		
1 4	+	011 Quantity Transmitters		
		(Furnished with Engine)		
A	R	Oil Quantity Indicators		

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COPENDIX I-C

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uan	Donomintian	Marufacturer	Part of Toec
Regd	Description		
4	Expines complete		
1 4	Tachometer Generators (Kurnished with Engine)		
4	Air Turbine Starters Starter Shutoff Valves		
1 4	Pressure Ratio Transmitter		
4	Ice Warning Indicator Units		
	FUEL SYSTEM E-U PMENT		
AR	Booster Funds		
10	Drain Valves Cross-Feed Shutoff Valves		
4	Firewall Shutoff Valves Tank Shutoff Valves		
4	Fuel Tank Caps		
8	Fuel Vent Float Values Fuel Flow Transmitter		
4	Fuel Low Pressure Warning Switches	3	
14	Underwing Refueling Units Underwing Float Automatic Shutoff		
	Valves		
AR 2	Fuel Dump Shutoff Valves Defuel Valves		
4	Fuel Luantity Indicators (Repeate	N. Contraction of the Contractio	
	OIL SYSTEM EQUIPMENT		
2	(11 Pressure Gages (Dual)		
2 4	Oil Pressure Transmitter Oil Temperature Gages (Dual)		
	Oil Temperature Bulb Oil Pressure Low Warning Switch	- 7	
4	Oil Quantity Transmitters		
i.n	(Furnished with Engine) Oil Guantity Indicators		
#R	OII Cuantry In Italian		

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POWER PLANT EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
F	FUEL SYSTEM EQUIPMENT (Cont)		
8	Pressure Switch	Hydra. Elect.	40113
8	Pressure Switch	Hydra / Elect.	40120
4	Pressure Refueling Adapter	Parker Aircraft	1327-575699
4	Cap-Pressure Fuel Servicing (Flush-Type)	Parker Aircraft	1327-575806
4	Underwing Automatic Shutoff	/	
	Valve	Schulz Tool	2-155-61
4	Fuel Jettison Shutoff Valve	Accessory Prod.	730600
2 8	Defuel Valve	/Whittaker	131805
8	Pressure Switch - Eng. Main	X	
	Fuel Pump	Aero Instru.	1B2522-9
,	TT CITCUITS TOTT TOTT TOTT		
_	DIL SYSTEM EQUIPMENT		
4	Indiantona Engine 043		
-	Indicators, Engine Oil Pressure	YY G G	an olim
4	Oil Pressure Transmitter	U. S. Gauge	SR-04B
4	Engine Oil Temperature	U. S. Gauge	ST-104M
-	Indicator	Tavida Fra	1600001
4	Oil Temperature Bulb	Lewis Eng. Lewis Eng.	162023A
4	Oil Pressure Switch	Hydra. Electric	56B3A
- 4	Oil Quantity Transmitter	Simmonds	1023 381061-01059
,	(Furnished with Engine)	D.T.MINOTING	201001-01023
4	Indicator, Quantity, Engine		
	011	Simmons	393024-03842
t			J9J0E4-0J04E

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POWER PLANT EQUIPMENT

	Quan Reqd	Description	Manufacturer	Part or Spec. Number
	- 1	FUEL SYSTEM EQUIPMENT	4	
	4	Underwing Automatic Shutoff	Schulz Tool	
	4	Fuel Jettison Shutoff Valve	Accessor Prod.	730600
	4 2 8	Defuel Valve	Whittaker	131805
	8	Pressure Switch - Eng. Main		
		Fuel Pump	Aero Instru.	1B2522-9
	1			
		OIL SYSTEM EQUIPMENT		
17/19F	4	Indicators, Engine pil		
22/190		Pressure	U.S. Gauge	SR-04B
	4	0il Pressure Transmitter	U.S. Gauge	ST-104M
	4	Engine Oil Temperature		
		Indicator	Lewis Eng.	162C23A
	4	Oil Temperature Bulb	Lewis Eng.	56B3A
	4	011 Pressure Switch	Hydra Electric	1023
· r	4	011 Quantity Transmitter	Simmonds	381061-01059
		(Furnished with Engine)		
	4	Indicator, Quantity, Engine		annah antha
**		011	Simmonds	393024-03842
*		,		

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POWER PLANT EQUIPMENT

Quan Reqd	Description	Manufacturer	Part or Spec. Number
	OIL SYSTEM EQUIPMENT	. /	
4 4 4 4	Indicators, Engine Oil Pressure Oil Pressure Transmitter Engine Oil Temperature Indicator Oil Temperature Bulb Oil Pressure Switch Oil Quantity Transmitter (Furnished with Engine) Indicator, Quantity, Engine Oil	U.S. Gauge U.S. Gauge Lewis Eng. Lewis Eng. Hydra Electric Simmonds	SR-04B ST-104M 162C23A 56B3A 1023 381061-01059

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		APPEN	DIX I-C	
		POWER PLA	NT EQUIPMENT	
		CONVAIR FURNISHED	- CONVAIR INSTALLED	
01100				
Quan Reqd	Description		Manufacturer	Part or Spec. Number
0	IL SYSTEM EQU	IPMENT		
4		Engine Oil Pres-		
	sure		U. S. Gauge	SR-04B
4 4	Oil Pressure Engine Oil T	Transmitter emperature	U.S. Gauge	ST-104M
4	Indicator Oil Temperat		Lewis Eng.	162023A
4	Oil Pressure	Switch	Lewis Eng. Hydra Electric	56B3A 1023
4	011 Quantity (Furnished	Transmitter with Engine	Simmonds	381061-01059
4	Indicator, 011	uantity, Engine	Simmonds	202001 01600
	OII		BIHMONUS	393024-01629
		X		"
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ELECTRICAL EQUIPMENT

	Quan Regd	Description	Manufacturer	Part or Spec. Number
7 9D 9E 9F 9G		Wing Tip Lamp Assembly, L.H. Wing Tip Lamp Assembly, R.H. Wing Illumination Light, L.H. Wing Illumination Light, R.H. Light, Tail Position Light, Retractable Landing Light, Dome, Wheel Well Light, Anti-Collision, Lower Light, Signal and Auxiliary Landing	Grimes	40075-21-4174 40075-22-4174 40265-1-4594 40265-2-4594 B7890-5 40285A-4616 31595-23D 40045-1-7079 G9775-21-7079
	<u> </u>	NTERIOR LIGHTS		40205-2-4559 R.H.
	13 6 9 1 46 107 29	Belly Cargo Dome Lights Buffet Compartment Lights Lavatory Compartment Lights Engineer's Utility Light Ceiling and Aisle Lights Passenger Reading Lights, L.H. and R.H. Cockpit Lights	Soderberg Luminator Luminator Grimes Luminator Airite Pord. Grimes Grimes Grimes Grimes	S-1178 L-14475 L-14483 D-6810-A L-14474 7019-1 30750 30780 20485
	13 3 6	Cargo Compartment Lights Coat Compartment Lights Service Door Lights	Master Spec. Master Spec. Luminator Luminator Soderberg Luminator Luminator	414-100-1 415-100 L-15061 L-15481 S-1178 L-14487 L-14475

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APPENDIX I-C

ELECTRICAL EQUIPMENT

Quan. Reqd	Description	Manufacturer	Part or Spec.
E	EXTERIOR LIGHTS		
1 1 1 2 1 1 2 1 2 2	Wing Tip Lamp Assembly, L.H. Wing Tip Lamp Assembly, R.H. Wing Illumination Light, L.H. Wing Illumination Light, R.H. Light, Tail Position Light, Retractable Landing Light, Dome, Wheel Well Light, Anti-Collision, Lower Light, Anti-Collision, Upper Light, Signal and Auxiliary	Grimes Grimes Grimes Grimes Grimes Grimes Grimes Grimes Grimes	40075-21-4174 40075-22-4174 40265-1-4594 40265-2-4594 B7890-5 40285A-4616 31595-23D 40045-1-7079 G9775-21-7079
	Landing	Grimes	40205-1-4559L.н. 40205-2-4559R.н.
Ī	NTERIOR LIGHTS		*
13 6 9 1 46 107 29	Belly Cargo Dome Lights Buffet Compartment Lights Lavatory Compartment Lights Engineer's Utility Light Ceiling and Aisle Lights Passenger Reading Lights, L.H. and R.H. Cockpit Lights	Soderberg Luminator Luminator Grimes Luminator Airite Prod. Grimes Grimes Grimes Grimes Grimes Master Spec. Master Spec.	S-1178 L-14475 L-14483 D-6810-A L-14474 7019-1 30730 30750 30750 30780 20485 328-100 330-100 414-100-1 and
13 3 2	Accessory Compartment Lights Coat Compartment Lights Service Door Lights	Master Spec. Luminator Luminator Luminator Luminator Soderberg Soderberg Soderberg Soderberg Luminator	-3 415-100 14976 14978 L-15061 L-15481 ES-3306 ES-3310 15535 S-1178 L-14487

ONVAIR PAGE A-2 ANALYSIS REPORT NO. ZD-22-003 SAN DIEGO PREPARED BY MODEL 22 CHECKED BY DATE 9-20-56 REVISED BY Rev. 1-20-59 APPENDIX P ELECTRICAL MUIPMENT CONVAIR FURNISHED - CONVAIR INSTALLED Part or Spec. Qty Manufacturer Number Read Description /57 /19D EXTERIOR LIGHTS Wing Tip Lamp Assembly, L.H. 40075-21-4174 Grimes /19E Wing Tip Lamp Assembly, R.H. Wing Tilumination Light, L.H. Wing Illumination Light, R.H. Grimes 40075-22-4174 40265-2-4594 Grimes 1 40265-1-4594 Grimes Position Lamp B7890-1-311 Grimes Tail Position Light Landing Light, Retractable Light, Dome, Wheel Well Rotating Anti-Collis. Light 40285-4559 Grimes 31595-23 Grimes 1 40045-21-7079 Assembly, Lower Rotating Anti-Collis Light Grimes 1 G9775-21-7079 Grimes Assembly Upper Auxiliary Landing Light 40205-1 (L.H.) 40205-2 (R.H.) Grimes (Signal Lights) INTERIOR LAGHTS S-1178 Soderberg Belly Cargo Dome Lights L-14475 Luminator Buffet Compartment Lights L-14483 Luminator 9 Lavatory Compartment Lights D-6810-A Engineer's Utility Light Grines L-14474 Luminator Ceiling and Aisle Lights 46 Passenger Reading Lights, L.H. 107 7019 Airite Prod and R.H. 30730 Grimes 29 Cockpit Lights 30750 Grimes 30780 20485 Grimes Grimes 328-100 Master Spec. 330-100 Master Spec. 414-100-1 & 3 Master Spec. Master Spec. 415-100 14976 Luminator 14978 Luminator L-15061 Luminator L-15431 Luminator Soderberg ES-3306 ES-3310 Soderberg 15535 Soderberg 5-1170 13 Accessory Compartment Lights Soderberg 1-14457 Luminator Coat Compartment Lights Service Door Lights

C O N V A I R PAGE A-2 ANALYSIS REPORT NO 70-0 -00 PREPARED BY MODEL, CHECKED BY DATE J-20-REVISED BY APPENDIX I-C ELECTRICAL FQUIPMENT CONVAIR FURNISHED - CONVAIR INSTALLED Part or Spal. QUY Manufacturer Read Description 7 30 38 EXTERIOR LIGHTS Wing Tip Lamp Assembly, L.H. Wing Tip Lamp Assembly, R.H. Wing Illumination Light, L.H. Wing Illumination Light, R.M. 40075-27-417 Grimes 400 (1 -22-4) 402t -2-1 402 (-1-45) Grimes Grimes Grimes Position Lamp Tall Position Light B7 90-1-11 Grimes Landing Light, Retractable
Nose Wheel Well Light
Rotating Anti-Collis Light
Assembly, Lower
Rotating Anti-Collis Light 40205-4 Grimes 40049-21-101 Grimes Assembly, Upper Grimes G9775-21-10. Auxiliary Landing Light (Signal Lights) INTERIOR LIGHTS Belly Cargo Dome Lights AR Service Door Lights 3 Buffet Compertment Light Lavatory Compartment Light Flight Engineer's Light Celling and Aisle Light AR Passenger Reading Light, L.H. AR AR Passenger Reading Light, R.H. AR Cockpit Light Fasten Seat Belts - No Smoking Sign 21 Return to Cabin Sign Lavatory Occupied Sign AR Accessory Compartment Light. AR Coat Compartment Light 44 Valance - Type Fluorescent Lights

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CONVAIR

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APPLIDIX I-C

ELECTRICAL BOUTPILLS

CONVAIN FURNISHED - CONVAIN

	Qty	Description	Manufacturor	Part or Spec.
	1	EXTERIOR LIGHTS	1	
	11121211	Wing Tip Lamp Assembly, L.H. Wing Tip Lamp Assembly,H. Wing Illumination Light, L.Y. Wing Illumination Light, P.H. Position Lamp	Grimes Grimes Grimes Grimes	40075-21-4174 40075-22-4174 40265-2-4594 40265-1-4594
-	1 2 1	Tail Position Light Landing Light, Retractelle Nose Wheel Well Light Rotating Anti-Collis. Light	Grimes Grimes	B7890-1-311 40285-4559
	1	Assembly, Lower	Grimes	40045-21-7079
	2	Assembly, Upper Auxiliary Landing Light (Signal Lights)	Grimes	G9775-21-7079
		INTERIOR LIGHTS		
	AR 2 3 1 AR AR AR AR AR AR AR	Belly Cargo Done Lights Service Door Lights Buffet Compariment Light Lavatory Compartment Light Flight Engineer's Light Ceiling and Aisle Light Passenger Leading Light, L.H. Passenger Leading Light, L.H. Cockpit Light Fasten Seat Belts - No Smoking Return to Cabin Sign Lavatory Occupied Sign Accessory Compartment Light Coat Compartment Light	Sign	

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ELECTRICAL EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Part or Spec Quan Number Manufacturer Description Read

EXTERIOR LIGHTS

- Wing Tip hamp Assembly 1 (left hand)
- Wing Tip Lamp Assembly
- (right hand)
 Leading Edge Tce Inspection Lamps
- Position Lamps
- 1 Tail Light, Red
- Tail Light, White 1
- Landing Lights 21
- Nose Wheel Well Light
- Rotating Anti-Collision Light Assemblies 2
- Auxiliary Landing Lights (Signal Lights)

INTERIOR LEGHTS

- Belly Cargo Dome Lights AR
- Service Door Lights 2
- Buffet Compartment Light
- Lavatory Compartment Lights
- 3 Flight Engineer's Light -
- Ceiling and Aisle Lights AR
- AR
- Passenger Reading Lights, L.H. Passenger Reading Lights, R.H. AR
- Cockpit Lights AR
- Fasten Seat Belts No Smoking Sign 2
- 33 Return to Cabin Sign
- Lavatory Occupied Sign
- Accessory Compartment Light AR
- Coat Compartment Light AR

C O N V A I R SAM HEGGS

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AFFENDIX I-C

	ELECTRICAL	EQUIPMENT	
	CONVAIR FURNISHED -	CONVAIR INSTALLED	
Quan Reqd	Description	Manufacturer	Part or Spec
	EXTERIOR LIGHTS		
1	Wing Tip Lamp Assembly (left hand)		
1	Wing Tip Lamp Assembly (right hand)	1	
2 2 1	Leading Edge Ide Inspect Position Lamps Tail Light, Red	ion Lamps	
2 1 2 1 2 1 2	Tail Light, White Landing Lights Taxi Light		
1 2	Nose Wheel Well Light Rotating Anti-Collision Signal-Light	Light Assemblies	
	INTERIOR LIGHTS		
AR 2	Belly Cargo Dome Lights Service Door Lights		
2 1 3 1	Buffet Compartment Light Lavatory Compartment Lig Flight Engineer's Light	thts	
AR AR	Ceiling and Aisle Lights Passenger Reading Lights	L.H.×	
AR AR	Passenger Reading Lights Cockpit Lights Fasten Seat Belts - No S		
3 3	Return to Cabin Sign Lavatory Occupied Sign	moking sign	
AR AR	Accessory Compartment Li Coat Compartment Light	ght	

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APPENDIX I-C

ELECTRICAL EQUIPMENT

Quan Regd	Description	Manufacturer	Part or Spec. Number
AR	Electrical Equipment Racks	Convair	22-61010
4	Loadmeters (d-c)	Gen. Electric	8DW84AlAAl
4	Loadmeters (a-c)	Gen. Electric	8AW61A2AA1
ĭ	Voltmeter (d-c)	Gen. Electric	8DW84VlAA1
7	Voltmeter (a-c)	Gen. Electric	8AW61V1AA1
2	Transformers, 1-Phase Stepdown	Osborne	6781
1	Battery, Storage (27.5 Volt)	OBDOTTIE	0101
1	Nickel-Cadmium	Sonotone	CA-121-
-		Edwards	318
1 2 4	Warning Horn	Hartman	AVR-869
2	Power Failure Warning Units	Micro	V3-1
4	Ignition Switches	Hartment	A-718K
4	Reverse Current Relays		
1	External Power Receptacle(a-c)	Cannon Elec.	17175-106
	(AN 3114-1B)	Burton Elec.	255
		Joy Mfg. Co.	A6-437M6
	Y	A & J Anderson	4627
ļ	External Power Contactor	Gen. Electric	7290574P2
4	Transformer Rectifier	Chatham	28v 50-1
1423141414	Flare Release Solenoids	Meletron	130
3	Shaver Outlet Receptacles	ABC Elec.	1097.
1	Utility Receptacle	Hubbell	7332
4	Control Panel Regulator (a-c)	Gen. Electric	3\$2781F125A-1
1	Battery Relay	Hartman	A718K
4	Line and Bus Tie Contactor	Gen. Electric	7290572
1	Bus Tie Contactor (d-c)	Hartman	A876
4	Constant Speed Drive /		
	(Including Disconnect)	Gen. Electric	2CLKH4OB1
4	Constant Speed Drive Load		
	Controller	Gen. Electric	7TAR10A01
4	Generator - 40 KVA, 6000 RPM	Gen. Electric	7TAR10A01 2CM211A1
1	Control Switch (for ground		
_	starter equipment)		MS35058-4
4	Electrical Receptacle (for	Bendix	(4 pc) 77-10701
•	ground starter equipment)	7	25
	Storing Done of a family		Receptacle
			(4 pc) 10-74914
			Seal
			(4) 10-113196-1
			Adapter
1	Warning Horn Repeat Cycle Timer	Std.Elec.Prod.	9614
i	Wheel Control Motor Stabilizer		, ,
_	Trim	Sperry	2582028-02

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ELECTRICAL EQUIPMENT

	CONVAIR FURNISHED - CONVAIR INSTALLED				
Quan Reqd	Description	Manufacturer	Part or Spec.		
AR 4411221 12441 1423141414 4 41 4	Electrical Equipment Racks Loadmeters (d-c) Loadmeters (a-c) Voltmeter (d-c) Voltmeter (a-c) Transformers, 1-Phase Stepdown Transformers, 3-Phase Battery, Storage (27.5 Volt) Nickel-Cadmium Warning Horn Power Failure Warning Units Ignition Switches Reverse Current Relays External Power Receptacle(a-c) (AN 3114-1B)	Convair Gen. Electric Gen. Electric Gen. Electric Gen. Electric Gen. Electric Osborne Osborne Sonotone Edwards Hartman Micro Hartment Cannon Elec. Burton Elec. Joy Mfg. Co. A & J Anderson Gen. Electric Chatham Meletron Weber Hubbell Gen. Electric Hartman Gen. Electric	22-61010 8DW84A1AA1 8AW61A1AA1 8AW61V1AA1 6781 6784 CA-121-H 318 AVR-869 V3-1 A-718K 17175-106 255 A6-437M6 4627		
1	Warning Horn Repeat Cycle Timer	Std.Elec.Prod.	(4) 10-113196-14 Adapter 7162		

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ELECTRICAL EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED					
	Quan Reqd	Description	Manufacturer	Part or Spec	
3	AR AR AR	Electrical Equipment Racks Fuel Quantity Power Units Fuel Quantity Power Unit Mounting Racks	1.		
		Loadmeters (d-c) Loadmeters (a-c) Voltmeter (d-c) Voltmeter (a-c) Transformers, 1-Phase Stepdown Transformers, 3-Phase Battery, Storage(2+ volt or 2-12 volt)	Gen. Electric Gen. Electric Gen. Electric Gen. Electric Osborne Osborne	8 AW 61AAB2 8 DW 84VVB2	
	1 1 2	Nickel - Cadmium Position Light Flasher Warning Horn Power Failure Warning Units Flar Take-Off Warning Horn Interrupter	Hartman	AVR-869	
The second second	4 4 1	Ignition Switches Reverse Currect Relays External Power, receptable (A-C) (AN 3/14-1B)	Hartman Cannon Elec. Burton Elec. Joy Mfg. Co.	V3-1 A-718K 17175-106 255 A6-437M6	
	14261414	External Power Relay Transformer Rectifier Flare Release Solenoids Shaver Outlet Receptacles	A & J Anderson Gen. Electric Chatham	4627 A874F 28VS50	
The state of the s	1 4 4 1	Utility Receptable Control Panel-Regulator (A-C) Battery Relay Line & Bus Tie Contactor Back-Up Contactors (A-C) Bus Tie Contactor (D-C)	Gen. Electric Hartman Gen. Electric	A718K B-124A	
	4 4	Constant Speed Drive (Including Disconnect) Constant Speed Drive Load Controller Generator-WO:KVA, 6000 RPM	Gen. Electric	2CLKH40B1 672B750	
The State of the S	2	Control Switch (for ground starter equipment) Electrical Receptacle (for ground starter equipment)	AiResearch (7-)	2CM211A1	
1					

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ELECTRICAL EQUIPMENT

	CONVAIR FURNISHED - CONVAIR INSTALLED				
1	Oston	1	/	Part or Spec	
1	Quan Reqd	Description	Manufacturer	Number	
	redu	3	Trainer de day er	, mayou	
3	AR	Electrical Equipment Racks			
	AR	Fuel Quantity Power Units			
3	AR	Fuel Quantity Power Unit Mounting			
		Racks			
1	4	Loadmeters (d-c)	Gen. Electric		
1	4	Loadmeters (a-c)	Gen. Electric	8 AW 61AAB2	
ı	1	Voltmeter (d-c)	Gen. Electric	8 DW 84VVB2	
J	1	Voltmeter (a-d)	Gen. Electric	8 AW 61VVB2	
1	2	Transformers, 1-Phase Stepdown	Osborne	6781	
	4 1 2 2	Transformers, 3-Phase	Osborne	6784	
	Ŧ	Battery, Storage(24 volt op 2-12 volt)	•		
	3	Nickel - Cadmium			
1	1	Position Light Flasher Warning Horn			
ı	1 2	Power Failure Warning Units	Hartman	AVR-869	
ı		Flap Take-Off Warning Korn			
1		Interrupter			
1	4	Ignition Switches	Micro	V3-1	
-	4 4 1	Reverse Current Relays	Hartman	A-718K	
1	1	External Power receptacle (4-C)	Cannon Elec.	17175-106	
1		VAN SITA-ID)	Burton Elec.	255	
			Joy Mfg. Co. A & J Anderson	A6-437M6	
1	7	External Power Relay	Gen. Electric	A874F	
	並	Transformer Rectifier	Chatham	28VS50	
	2	Flare Release Solenoids	OTTO OTTOM	2.07.00	
	6	Shaver Outlet Receptacles			
	14261414	Utility Receptacle			
	4	Control Panel-Regulator (A-C)	Gen. Electric	382781F125A1	
	1	Battery Relay	Hartman	A718K	
J	4	Line & Bus Tie Contactor	den. Electric	B-124A	
1	4	Hack-Up Contactors (A-C)	Hartman	A876	
	14	Bus Tie Contactor (D-C) Constant Speed Drive	narthan	MOVO	
	TF	(Including Disconnect)	Gen. Electric	2CLKH4OB1	
	4	Constant Speed Dave Load			
	1	Controller	Gen. Electric		
	y 4	Generator-+0 KVA	Gen. Electric	2CM211A1	
	2	Control Switch (for ground starter			
	-	equipment)			
	1	Electrical Receptacle (for ground	AiResearch (7-	nin	
		starter equipment)	connector)	. h Trr	
		**	4411100 W1 /		

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ELECTRICAL EQUIPMENT

		/ BHECIRICAL EQ	OTAMENT	
		CONVAIR FURNISHED - C	OMITATO THORAT -	
	03300	C. C	ONVAIR INSTALLED	
	Quan Reqd	B		Domb a
	31000	Description	Manufacturer	Part or Spec
B	AR	Electrical Equipment Racks		Monthet
	AR	Fuel Quantity Power Units		
B	AR	Fuel Quantity Pover Unit Mounting		
	141	Hacks		
ı	4	Loadmeters (d-c)	Con 72 i i	0
-1	4 1 2 2 1	Loadmeters (a-c)	Gen. Electric	8 DW 84AAB2
ı	7	Voltmeter (d-c)	Gen. Electric	O AW 61AAB2
1	2	Voltmeter (a-c)	Gen. Electric	O DW 84VVB2
1	2	Transformers, 1-Phase Stepdown Transformers, 3-Phase	Osborne	6781
ı	ī	Battery Stores (0)		6784
H		Battery, Storage(24 volt or 2-12 v Nickel - Cadmium	olt)-	0/01
	1	Position Light Flasher		
	1 2	warning Horn		
1	2	Power Failure Warning Watte	TT - or first	
П		TAGE TAKE-UIT Warning More	Hartman	AVR-869
ı	4	Interrupter		
L	4	Ignition Switches	Micro	ר כעד
I	i	Reverse Currect Relays	Hartman	V3-1 A-718K
	~	External Power, receptacle (A-C)	Cannon Elec.	17175-106
ı		OTTA-TD)	Burton Elec.	255
			Joy Mfg. Co.	46-437M6
	1	External Power Relay	A & J Anderson	4627
	4	Transformer Rectifier	Gen. Electric	A874F
	2	Flare Release Solenoide	Chatham	28VS 50
	0	Shaver Outlet Recentacies		
	1.	Utility Ateceptacie		
	7	Control Panel-Regulator (A-C)	Gen. Electric	352781F125A1
	14261414	Battery Relay Line & Bus Tie Contactor	Hartman	A718K
		Back-Up Contactors (A-C)		B-124A
	1	Bus Tie Contactor (D-C)		
		Constant Speed Drive	Hartman	A876
		(Including Disconnect)	0	
	4	Constant Speed Drive Load	Gen. Electric	2CLKH+OB1
	4	Controller	Gen. Electric	6 From Fire
	4 (Generator-40 KVA	A	672B750
	2	Control Switch (for ground starter		2CM211A1
	_	edarbmeur)	BENDIX 10-107014-	25 RECP
		Electrical Receptacle (for ground - starter equipment)		See See M. HOEV
		- and a country	Alkesearch (#=p	in
			connector) 4	

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A REVISION OF GENERAL DEPARTMENT SAIN DIEGO

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ELECTRICAL E WITH-NT

CONVAIR FURNISHED & CONVIER INST

Quan Reqd	Description	Manufacturer	Part or Spec
AR AR	Electrical Equipment Racks Fuel Quantity Power Units		
AR	Fuel Quantity Power Unit Mounting Racks	1	
4	Loadmeters (d-c)		
1	Loadmeters (a-c) Voltmeter (d-c)		
1 1 2 2 1	Voltmeter (a-c) Transformers, 1-Phase Standown		
2	Transformers 3-Phase Battery, Storage (24 volt or 2-	-12 volt/ -	
#4	Nickel - Cadmium Alternators - OKVA Approx		
	115/200V 3 Position Light Flasher X		
1 1 2	Warning Horn		
Ć.	Power Failure Warning Units Flap Take-Off Warning Horn X		
4	Interrupter Ignition Switches		
1 1	Reverse Current Relays External Power receptable (a-c)	
1 4	External Fower Relay Transformer Rectifier		
2 6	- Flare Release Solenoids / Shaver Outlet Receptacles /		
i	Utility Receptacle		
4	A-C Control Panels A-C Foltage Regulators		
1 8	Battery Relay A-Q Tie Breakers	1	
5	Back-Un Contactors (a-c) Main Line Contactors (d-c)		
4	Constant Speed Drive (Including Disconnect) @ 79	Lb	
4		O Lb	
*		O Lb	
		O Lb	

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CONVAIR SAN DIEGO

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ELECTRONIC EQUIPMENT

0			f
Quan Reqd	Description	Manufacturer	Part or Spec.
Ž	HF NAVIGATION SYSTEM		
5 5 5	Receivers RMI Indicators Pictorial Deviation Indi-	Collins Pioneer	522-0833-034 36126-1AF-25-A1
2	VOR/LOC Instrumentation Unit	Sperry Collins	1777211-621 344B-1 Type
1	Omni-Directional Antenna	Convair	522-0887-025 22-35505-1 and 2
R	ADIO COMPASS (ADF) SYSTEM		J I diid Z
#2	Receivers	Collins	51Y-3 Type
5	Servo Amplifiers Loop Antenna	Collins Collins	522-0769-014 3333-3 137A-2 Type
2	Sense Antenna, Flush	Convair	522-0771-005 22-30102-Basic
M	ARKER BEACON	'	
*1	Receiver	Collins	51Z-2 Type
1	Power Supply (a-c) Antenna, Semi Flush	Collins Collins	522-0592-014 516A1 37X-2 Type 522-0854-003
Ī	NSTRUMENT LANDING SYSTEM		
#2	Glide Slope Receivers (a-c power source)	Collins	51V-3 Type
1	Antenna	Collins	522-0671-044 372-4 Type 522-0688-013
v	HF COMMUNICATION		123
2	Transmitters	Collins	17L-7 Type
2	Receivers	Collins	522-0899-034 51X-2 Type
2	Antenna (Faired-In-Type) Antenna (Low Drag)	Convair Microwave	522-0833-034 22-30513 22-31006-1

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APPENDIX I-C

ELECTRONIC EQUIPMENT

Quan Reqd	Description	Manufacturer	Part or Spec. Number
V	THE NAVIGATION SYSTEM		
2 2 2	Receivers RMI Indicators Pictorial Deviation Indi-	Collins Pioneer	522-0833-034 36126-1AF-25-A1
2	vor/Loc Instrumentation Unit	Sperry Collins	177211-621 344B-1 Type 522-0887-025
1	Omni-Directional Antenna	Convair	22-35110
<u>F</u>	RADIO COMPASS (ADF) SYSTEM		
*2	Receivers	Collins	51Y-3 Type 522-0769-014
2	Servo Amplifiers Loop Antenna	Collins Collins	333B-3 137A-2 Type 522-771-005
2	Sense Antenna, Flush	Convair	22-30102-Basic
IV.	IARKER BEACON		
*1	Receiver	Collins	51Z-2 Type 522-0592-014
1	Power Suppl# (a-c) Antenna, Semi Flush	Collins Collins	516A1 37X-2 Type 522-0854-003
Ī	NSTRUMENT LANDING SYSTEM		
*2	Glide Siope Receivers (a-c power source)	Collins	51V-3 Type . 522-0671-044
1	Antenna	Collins	37P-4 Type 522-0688-003
<u>v</u>	THE COMMUNICATION		
2	Transmitters	Collins	17L-7 Type 522-0899-034
2	Receivers	Collins	51X-2 Type 522-0833-034
1 2	Antenna (Faired-In-type) Antenna (LowDrag)	Convair Microwave	22-30105 175-10001

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APPENDIX I-C

ELECTRONIC EQUIPMENT

CONVERT FORMATION OF THE PARTY					
Qty	Manufacturer	Part or Spec.			
Reud Description	Tiding Go og or				
VHF WAVIGATION SYSTEM	,				
2 Receivers 2 PMI Indicators 2 Pictorial Deviation Indicator 2 VOR/LOC Instrumentation Unit 1 Omni-Directional Antenna	Collins Pioneer Sperry Collins Convair	51x2 36105-1x 1777211-621 522-0887-025 22-35110			
RADIO COMPASS (ADF) SYSTEM		1			
*2 Receivers 2 Servo Amplifiers 2 Loop Antenna 2 Sense Antenna, Flush	Collins Collins Collins Convair	522-0769-014 33313-3 522-0771-005 22-30102-Basic			
MARKER BEACON					
*1 Receiver 1 Power Supply (ac) 1 Antenna, Semi Flush	Collins Collins Collins	522-0592-014 516A1 522-0854-003			
INSTRUMENT LANDING. SYSTEM					
*2 Glide Slope Receivers (ac power source) 1 Antenna VIF COMMUNICATION	Collins Collins	522-0671-044 522-0688-003			
2 Transmitters 2 Receivers	Collins Collins	522-0899-03 ¹ + 522-083 3-0 3 ⁴			
1 Antenna (Faired-In-type) 2 Antenna (Low Drag)	Convair Microwave	175-10001			
	2				
HF COMMUNICATION	-				
l Transmitter-Receiver l Power Unit (ac) l Antenna Coupler l Antenna	Collins Collins Collins Convair	597-0290-010 416W-3 522-0532-004 22-14900			
NOTE: *Indicates minaturized	equipment.				

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CONVAIR

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APPUNDIN I-C

THE CORONEC BOULDWINE

ALCOMORIG SERVICE					
CONVALE FURNISHED - CONVALE INSTALLED					
	Qty Jood	Description	Manufacturer	Part or Spec.	
		VEF NAXIGATION SYSTEM			
	2 2 2 2 1	Receivers RMI Indicators Pictorial Deviation Indicator VOR/LOC Instrumentation Unit Omni-Directional Antenna	Collins Fioneer Sperry Collins Convair	51X2 36105-17 1777211-021 3445-1	
		RADIO COMPASS (ADF) SYSTEM			
	*2 2 2	Receivers Servo Amplifiers Loop Antenna Sense Antenna, Flysh	Collins Collins Collins Convair	51Y-3 333B-3 137A-2 22-30102-Basic	
		MARKER BEACON			
-	*1	Receiver Power Supply (ac) Antenna, Semi Flush	Collins Collins Collins	51Z-2 516 AL 37X-2	
		INSTRUMENT LANDING SYSTEM			
	*2	Glide Slope Receivers (ac power source)	Collins Collins	51V-3 37P-4	
1		THE COMMUNICATION	1	as and as a del	
	2	Transmitters Receivers	Collins Collins	17L-7 51X-2	
	1/2	Antenna (Faired-In type) Antenna (low drag)	Convair Microwave	175-10001	
1		HF COMMUNICATION		1	
	1 1 1 1 1	Transmitter-Receiver Power Unit (ac) Antenna Coupler Antenna	Collins Collins Collins Convair P/N	5188-1 16W-3 180 N-4 to be supplied	

NOTE: *Indicates miniaturized equipment.

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MODEL 12 MODEL 12 DATE 9-10-50

APPENDIX I-C

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Qty Redd	Description	Manufacturer	Part or Spac.
	VHF NAVIGATION SYSTEM		
22221	Receivers LMT Indicators Pictorial Deviation Indicator VCR/LOC Instrumentation Unit Omni-Directional Antenna	Collins Pioneer Sperry Collins Convair	51X2 36105-14 1777211-621 3444-1
	RADIO COMPASS (ADF) SYSTEM		
*2 2 2 2	Receivers Servo Amplifiers Loop Antenna Sense Antenna, Fluih	Collins Collins Collins Convair	51Y-3 333B-3 137A-2 22-30102-Basic
	MARKER BEACON		
*1 1 1	Receiver Power Supply (ac) Antenna, Semi Flush	Collins Collins Collins	51Z-2 516A1 37X-2
	INSTRUMENT LANDING SYSTEM		
*2	Glide Slope Receivers (ac power source) Antenna	Collins Collins	51V-3 37P-4
	VHF COMMUNICATION		
2212	Transmitters Receivers Antenna (Flush type) Antenna (Low drag)	Collins Collins Hicrowave	17L-7 51X-2 37K-1 175-10001
	HE COMMUNICATION		
1 1 1 1	Transmitter-Receiver Power Unit (ac) Antenna Coupler Antenna	Collins Collins Convair P/N to be	6185-1 416W-3 180 R-4 supplied
-	NOTE: *Indicates miniaturized e	quipment.	

NOTE: *Indicates miniaturized equipment.

C O N V A 1 R A DIVISION OF GENERAL DINANICS CORPORATION SAN DIEGO

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ELECTRONIC EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

	Quar Rego		Manufacturer	Part or Spec
9 B C		VHF NAVIGATION SYSTEM	1	
	2222	Receivers RMI Indicators Pictorial Deviation Indicator VOR/LOC Instrumentation Unit	Collins Pioneer Sperry Collins	51X2 36105-1N 1777211-621 3中日-1
		RADIO COMPASS (ADF) SYSTEM		
	*2	Receivers Servo Amplifiers	Collins Collins	51Y-1 333B-3
ò		MARKER BEACON		
	*1	Receiver Power Supply (AC)	Collins Collins	51Z-2 516A1
		INSTRUMENT LANDING SYSTEM		
	*2	Glide Slope Receivers (AC Power Source)	Collins	51v -3
		VHF COMMUNICATION		
	2 2	Transmitters Receivers	Collins Collins	17L-7 51X-2
		HF COMMUNICATION		
	1 1 1	Transmitter-Receiver Power Unit (AC) Antenna Coupler	Collins Collins	618s-1 416w-3 180 R-4
			1	

Indicates miniaturized equipment. NOTE;

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ELECTRONIC EQUIPMENT

	CONVAIR FUR	NISHED - CONVAIR INSTALL	ED
Quan Reqd	Description	Manufacturer	Part or Spec.
H	F COMMUNICATION		
1	Transmitter-Receiver	collins	6188-1 Type
1	Power Unit (a-c) Antenna Coupler	Collins Collins	597-0290-010 416W-3 180R-4 Type 522-0532-004 22-14903
1	Antenna	Convair	22-14903

CONVAIR ANALYSIS PAGE /A-4a REPORT NO ZD-22-003 MODEL 22 PREPARED BY SAN DIEGO CHECKED BY DATE 9-20-003 REVISED BY Rev. 9-25-59 APPENDIX I-C ELECTRONIC EQUIPMENT CONVAIR FURNISHED - CONVAIR INSTALLED Part or Spec. Quan Manufacture Number Reqd Description HF COMMUNICATION 9F Transmitter-Receiver Colling 618S-1 Type 1 597-0290-010-416W-3 -Power Unit (a-c) Collins 180R-4 Type 1 Antenna Coupler Collins 522-0532-004 22-14900 Convair Antenna

CONVAIR A DIVIDED OF BEHRRAL DYNAMICS COMPONATION SAN DIEGO

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APPENDIX I-C

FIRCTRONIC FOUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLER

	1		e
Quan Reqd	Description \	Manufacturer	Part or Spec Number
	VHF NAVIGATION SYSTEM		
2 2 2	Receivers RMI Indicators Pictorial Deviation Indicator	Collins Pioneer Sperry	51R-4 36105-1N R-1
	RADIO COMPASS (ADF) SYSTEM		
2*	Receivers Servo Amplifiers	Collins Collins	51Y-1 3338-3
	MARKER BEACON		
1*	Receiver Power Supply (AC)	Collins Collins	51Z-2 516A1
	INSTRUMENT LANDING SYSTEM		
2*	Glide Slope Receivers (AC Power Source)	Collins	51 V-3
	VHF COMMUNICATION	1	
2 2	Transmitters Receivers	Collins Collins	17L-7 51X-2
	HF COMMUNICATION		
1 1 1	Transmitter-Receiver Power Unit (AC) Load Coil	Collins P/N t Convair P/N t	

NOTE: * Indicates miniaturized equipment.

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ELECTRONIC EQUIPMENT

Quan Reqd	Description	Manufacturer	Part or Spec. Number
]	PASSENGER ENTERTAINMENT (PA) SYSTEM		
1	Amplifier	Collins	346D-1, 522-0875-006
AR 1	Speakers Tape Reproducer Prestorper ARINC 539	Jensen Presto	P6V MPB601-AC/DC
	INTERPHONE SYSTEM (SERVICE)		
3 *1	Handsets Amplifier	Remler Collins	A255/W75675-2 3560-1 522-0395-003
3	Handset Holders	Roanwell	9607
	INTERPHONE SYSTEM (FLIGHT)		
3 4 2 2	Microphones Headsets Cockpit Speakers Amplifiers, Cockpit Speaker	Telephonics Telephonics Quam Collins	RS-38E TC136B 4A07Z45 Type 356D-1
1	Frame Assembly Amplifier	Collins	522-0388-003 346B-1 522-0387-085
1	Amplifier	Collins	522-0395-003
Ī	WEATHER RADAR		
1/	Transmitter/Receiver	Collins	374-AI Type 522-8370-004
1	Synchronizer (Accessory Unit)	Collins	776C-1, 522-8369-004
1	Indicator Antenna (30")	Collins Collins	493A-2 537F-3, 522-8407-015
]	DISTANCE MEASURING EQUIPMENT TACAN		
2	Antenna	Electronic Specialty	LB-147
	*Indicates miniaturized equipment.		

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9E 9F 9G 87

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ELECTRONIC EQUIPMENT

Quan Reqd	Description	Manufacturer	Part or Spec. Number			
PASSENGER ENTERTAINMENT (PA) SYSTEM .						
. 1	Amplifier	Collins	346D-1, 522-0875-006			
AR 1	Speakers Tape Reproducer Presto	Jensen	P6V			
	per ARINC 539 INTERPHONE SYSTEM (SERVICE)	Presto	MPB601-AC/DC			
171	INTERPHONE SYSTEM (SERVICE)					
*1	Handsets Amplifier	Remler Collins	A255/W75675-2 356C-1 522-0395-003			
3	Handset Holders	Roanwell	9607			
	INTERPHONE SYSTEM (FLIGHT)					
3422	Microphones Headsets Cockpit Speakers Amplifiers, Cockpit Speaker	Telephonics Telephonics Quam Collins	RS-38E TC136B 4A07Z45 Type 356D-1 522-0388-003			
1	Frame Assembly Amplifier	Collins	346B-1 522-0387-085			
1	Amplifier	Collins	522-0395-003			
	WEATHER RADAR					
1	Transmitter/Receiver	Collins	374-AI Type 522-8370-004			
1	Synchronizer (Accessory Unit)	Collins	776c-1 522-8369-004			
1	Indicator Antenna (30")	Collins Collins	493 A- 2 537 F- 3, 522-8407-015			
	DISTANCE MEASURING EQUIPMENT TACAN					
2	Antenna	Convair	LB-147			
	NOTE: *Indicates miniaturized equipme	ent.				

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CONVAIR

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ELECTRONIC EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
1	PASSENGER ENTERTAINMENT (PA) SYSTEM	_ /	
1	Amplifier	Collins	346D-1, 522-0875-006
AR 1	Speakers Tape Reproducer Presto	Jensen Presto	P6V MPB601-AC/DC
,	per ARINC 539 INTERPHONE SYSTEM (SERVICE)	riesco	MFBOOT-RO/ DC
3	Handsets Amplifier	Remler Collins	A255/W75675-2 356C-1
3	Handset Holders	Roanwell	522-0395-003 9607
	INTERPHONE SYSTEM (FLIGHT)	\	
14 14	Microphones Headsets	Telephonics Telephonics	RS-38E TC136B
5	Cockpit Speakers Amplifiers, Cockpit Speaker	Quam Collins	4A07Z45 Type 356D-1
1	Frame Assembly Amplifier	Collins	522-0388-003 346B-1 522-0387-085
1	Amplifier	Collins	522-0395-003
	WEATHER RADAR		
1	Transmitter/Receiver	Collins	374-AI Type 522-8370-004
1	Synchronizer (Accessory Unit)	Collins	776c-1 522-8369-004
1	Indicator Antenna (30")	Collins Collins	493A-2 537F-3, 522-8407-015
	DISTANCE MEASURING EQUIPMENT TACAN		
2	Antenna	Convair	LB-147

NOTE: *Indicates miniaturized equipment.

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CONVAIR

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ELECTRONIC FOLLEDMENT

ELECTRONIC EQUIPMENT						
	CONVAIR FURNISHED - CONVAIR INSTALLED					
Quar Requ		Manufacturer	Part or Spec. Number			
	PASSENGER ENTERTAINMENT (PA) SY	STEM				
1	Amplifier	Collins	346D-1, 522-0875-006			
AR 1	Tape Reproducer Presto	Jensen	P6V			
	per ARINC 539 INTERPHONE SYSTEM (SERVICE)	Presto	MPB601-AC/DC			
3	Handsets Amplifier	Remler Collins	A255 3560-1			
3	Handset Holders	Western Elec.	522-0395-003 G2-3			
	INTERPHONE SYSTEM (FLIGHT)		e 			
4422	Microphones Headsets Cockpit Speakers Amplifiers, Cockpit Speaker	Telephonics Telephonics Quam Collins	RS-38E TC136B 4A07Z45 Type 356D-1			
1	Frame Assembly Amplifier	Collins	522-0388-003 346B-1			
1	Amplifier	Collins	522-0387-085 522-0395-003			
	WEATHER RADAR					
1	Transmitter/Receiver	Collins	374-AI Type			
1	Synchronizer (Accessory Unit)	Collins	522-8370-004 7760-1 522-8369-004			
1	Indicator/ Antenna (30")	Collins Collins	493A-2 537F-3, 522-8407-015			
	DISTANCE MEASURING EQUIPMENT TAC	CAN				
2	Antenna	Convair	P/N to be supplied			

Antenna

Convair P/N to be supplied

NOTE: *Indicates miniaturized equipment.

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ELECTRONIC EQUIPMENT

CONVAIR FURNISHED - CONVAIR MISTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
	PASSENGER ENTERTAINMENT (PA) SYSTEM		
AR 1	Amplifier Speakers Tape Reproducer Presto per	Collins Jensen	522-0875-006 P6V
-	ARINC 539	Presto	MPB600-AC/DC
	INTERPHONE SYSTEM (SERVICE)		
3 *1 3	Handsets Amplifier Handset Holders Signal Horn	Remler Collins Western Elec Convair P/	A255 522-0395-003 .G2-3 N to be supplied
	INTERPHONE SYSTEM (FLIGHT)		
4 2 2 1	Microphones Headsets Cockpit Speakers Cockpit Speaker Amplifiers Frame Assembly Amplifier	Telephonics Telephonics Quam Collins Collins	RS-38E TC136B 4A07Z45 522-0388-003 522-0387-085
	WEATHER RADAR		
1 1 1	Transmitter/Receiver Synchronizer (Accessory Unit) Indicator Antenna (30")	Collins Collins Collins	522-8370-004 522-8369-004 493A-2 522-8407-015
	DISTANCE MEASURING EQUIPMENT TACAN		
5	Antenna	Convair P/N	to be supplied

NOTE: *Indicates miniaturized equipment.

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A DIVISION OF GENERAL DYNAMICS CORPORATION
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ELECTRONIC HOUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quar Rego		Manufacturer	Part or Spec
	PASSENGER ENTERTAINMENT (PA) SYSTEM		
1 AR 1	Amplifier Speakers Tape Reproducer Presto per ARINC	Collins Jensen	346D-1 P6V
	Tape Reproducer Aresto per ARINC 539 INTERPHONE SYSTEM (SERVICE)	Presto	MPB600
3 *1 3	Handsets Amplifier Handset Holders Signal Horn	Remler Collins Western Elec. Convair P/N to	A255 356Cl G2-3 be supplied
44221	INTERPHONE SYSTEM (FLIGHT) Microphones Headsets Cockpit Speakers Cockpit Speaker Amplifiers Case-Frame-Power Unit	Telephonics Telephonics Quam Collins Collins	RS-38E TC136B 4A07Z45 356D1 346B-1
1 1 1 1	WEATHER RADAR Transmitter/Receiver Synchronizer Indicator Antenna (30")	Callins Collins Collins Collins	374-A1 776-C1 493A-2 537F-3
2	DISTANCE MEASURING EQUIPMENT TACAN Antenna	Convair PA to	be supplied

NOTE: * Indicates miniaturized equipment.

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CONVAIR FURNISHED - CONVAIR INSTALLED

1	OCH 4 THE TOTAL PROPERTY - 30 34 A 3	ER INGIADEOD	/
Quan		/	Part or Spec
Regd	Description	Manufacturer	Number
	ATC TRANSPONDER BEACON		
1	ATC Transponder Beacon per	ARING Spec	532A
	PASSENGER ENTERTAINMENT (PA) SYSTEM		
1	Amplifier	Remler	A550
AR	Speakers\ Tape Reproducer Presto per	P/N to be supp.	11ed 528A
1		KUTING	JEON
	INTERPHONE SYSTEM (SERVICE)		
3	Handsets	Remler Collins	A255
3	Amplifier Handset Holders	Western Blec.	35001
3	Signal Horn	Convair P/N to	be supplied
	INTERPHONE SYSTEM (FLICHT)		
4	Microphones	P/N to he suppl	ied by DAL
2 2 1	Headsets Cockpit Speakers	P/N to be suppl	Lied by DAL
2	Cockpit Speaker Amplifiers	Convair P/N to Collins	35601
1	Case-Frame-Power Unit	Collins	346Al
	WEATHER RADAR		
1	. Transmitter/Receiver	Collins	374-A1
1 1 1 1	Synchponizer	Collins	776-C1
1	Indicator Antenna (34")	Collins P/N to	be supplied 537F
-	Allocation ()4"	COLLINS	7) (

NOTE:

* Indicates miniaturized equipment.

CONVAIR PAGE A-6 ANALYSIS REPORT NO. PREPARED BY ZD-22-003 SAN DIEGO MODEL 22 CHECKED BY REVISED BY DATE 9-20-56 Rev. 9-25-59 APPENDIX I-C ELECTRONIC EQUIPMENT CONVAIR FURNISHED - CONVAIR INSTALLED Quan Part or Spec. Read Description Mahufacturer Number ATC TRANSPONDER ANTENNA Antenna Electronic Spec. LB-147-A CONTROL PANELS 2 VHF Comm/Nav. Control Vanel Gables G-510V 1 HF Communication (Qual) Gables G-509 G-512 Weather Radar Control Panel Gables ADF Control Panel Collins 6141-6 Туре 522-0928-004 Dual ATC Transp. Beacon/ G-565 Marker Gables 4 Audio Selector Control Box Sel. Call Ind. Cont. Panel Gables G-567 1 G-566 (Dual) Gables

CONVAIR

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ELECTRONIC EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Reqd Description	Manufacturer	Part or Spec. Number
ATC TRANSPONDER ANTENNA 2 Antenna - "L" Band Stub	Electronic Spec.	T D 1 1177 A
CONTROL PANELS	Electronic Spec.	LB-14 [+R
2 VHF Comm/Nav. Control Panel 1 HF Communication (dual)	Gables Gables	G-510V G-509
l Weather Radar Control Panel 2 ADF Control Panel	Gables Collins	G-512 522-0928-004
1 Dual-Transp. Beacon/Marker 4 Audio Selector Control Box 1 Sel. Call Ind. Cont. Panel (du	Gables Gables	G-565 G-567
1 Sel. Call Ind. Cont. Panel (du 1 Marker Beacon Control	al) Gables Convair P/N to b	G-566 e supplied

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CONVAIR

REPORT NO Z1-22-003

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Qty mend Description	Namuracturer	Part or Spec.
ATC TRANSPONDER ANTERNA		
2 Antenna "L" Band Stub	Electronic Spec.	11-147-4
CCTPLOL PANEXS		
2 VHF Comm/Nav. Control Panel 1 HF Communication (dual) 1 Weather (adar Control Panel 2 ADF Control Panel 1 Dual Transp. Beacok Narker 4 Audio Selector Control Box 1 Sel. Call Ind. Cont. Panel (dual) 1 Harker Beacon Control		G-510V G-509 G-512 6145-6 G-565 G-567 G-566 e supplied

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ELECTRONIC EQUIPMENT

Qua Req		Manufacturer	Part or Spec
11.64	VHF NAVIGATION SYSTEM ANTENNA		
1	Omni-Directional Antenna	Convair	
	RADIO COMPASS (ADF) SYSTEM ANTENNA		
2 2	Loop Antenna Sense Antenna Flush	Collins Convair	137A-2
	MARKER BEACON ANTENNA		
1	Antenna (Semi-Flush)	Collins	37X-2
	INSTRUMENT LANDING SYSTEM ANTENNA		
1	Antenna	Collins	37P-4
	VHF COMMUNICATION ANTENNA		
1 2	Antenna (Flush Type) *Antenna (Low Drag)	Collins Convair P/N to	37R-1 be supplied
	HF COMMUNICATION ANTENNA		
1	Antenna	Convair P/N to	be supplied
	ATC TRANSPONDER ANTENNA	1	
2	Antenna - "L" Band Stub	Electronic Spe	e. LB-147-A
	CONTROL PANELS	1	
211211111111111111111111111111111111111		Gables Gables Collins Gables Gables Gables Convair P/N to	G-510 G-509 G-512 614L-6 G-565 G-567 G-566

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ELECTRONIC EQUIPMENT

	4	SEBOTRORIO STOTIMAT	,		
	1	CONVAIR FURNISHED - CONVAIR	INSTALLE	D	
Quan			/		Part or Spec
Regd		Description	Manufact	urer	Number
	VHF N	AVIGATION SYSTEM ANTENNA			
1		Omni-Directional Antenna	Convair		
	RADIO	COMPASS (ADF) SYSTEM ANTHUNA	b-		
2 2		Loop Antennas Sense Antenna Flusa	Collins		1374-1
	MARKE	R BEACON ANTENNA			
1		Antenna (Semi-Flush)	Collins		37X-1
	INSTR	UMENT LANDING SYSTEM ANTENNA			
1	4	Antenna	Collins		379-3
	VHF C	OMMUNICATION ANTENNA			
1 2		Antenna (Flush Type) Antenna (Low Drag)			37R-1 to be supplied
	HF COI	MMUNICATION ANTENNA	1		
1		Antonna	Conveir	P/N t	to be supplied
	ATC T	RANSPONDER ANTENNA	1		
1		Intenna	Convair	No t	to be supplied
	CONTR	OL PANELS		1	-
2	1	VHF/VOR Control Panel	Convair	P/N t	be supplied
1 2 1 4 1	1	HF Communication (Dual) Weather Radar Control Panel per ADF Control Panel ATC Transp. Beacon Panel Audio Selector Control Box Sel. Call Ind. Cont. Panel (Dual)	Convair Convair	P/N t	529 to be supplied to be supplied to be supplied to be supplied
1		Marker Beacon Control	Convair	P/N t	to be supplied
1					

CV CONVAIR - SAN DIEGO CONVAIR DIVISION GD GENERAL DYNAMICS CORPORATION SAN DIEGO 12,

CALIFORNIA

MODEL 22

2/19E 7/19F 9/259A 2/19G

DATE 9-20-55

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APPENDIX I-C

INSTRUMENTS AND RELATED EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Regd.	Description	Manufacturer	Part or Spec.
	The 2 Owen Address (Made 24 - am	/	
1	Fuel Quantity Totalizer Indicator	Simmonds Aerocess.	393012-01642
4	Fuel Quantity Compensators	Simonds Aerocess.	300047-13001
48	Fuel Quantity Probes	Simmonds Aerocess.	
	1207 600000000000000000000000000000000000	2 ea.	381056-02143
			through
			381056-02150,
		/	381056-02152,
			381056-02277
		/	through
		/	381056-02264,
			381056-02286,
		/	381056-02238
	\		through 381056-02293
2	Fuel Quantity Indicator		301030-02293
_	Repeater	Simmonds Aerocess.	383093-01669
2	Fuel Quantity Indicator		3-3-33
	Repeater	Simmonds Aerocess.	383093-01670
2	Fuel Quantity Ind. (Counter-	\	
	Pointer-Type) Tanks #1		
	and #4	Simmonds Aerocess.	393022-01581
2	Fuel Quantity Ind. (Counter-		
	Pointer-Type) Tanks #2	/83	202000 07.00
4	and #3	Simmonds Aerocess.	8DJ97LAA-1
l i	Fuel Flow Indicator Cabin Temperature Indi-	Gen. Electric	ODDA! TWW-T
1 *	cator	Lewis Eng.	162021
1	Cabin Remote Temp, Ind.	HOUSE HIS	104021
_	Sensor and XHTR		MS-28034-3
4	Tachometer Indicator	Gen. Electric	GDJG1-LAW-1
1	Flap Position Indicator -		
	Dual	Ger. Electric	8DJ91LAB-Y1
2	Flap Position Transmitter	Gen. Riectric	8TJ39AAH-1
2	Rate of Climb Indicator	Pioneer Central	1653-6AB-A6-1
2	Turn and Slip Indicator		2001 346 53 3
	(Electric)	Pioneor Central	3924-1AG-B1-1
2	Clocks	Wakmann	W33-7530-10
-	Pressure Indicator (Hydraulic)	U.S. Gauge	SRL-07J
4.	Hydraulic Pump Failure Lt.	Korry	MV1-1
7	Light	NOTE:	MATAT

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INSTRUMENTS AND RELATED EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

	Quan Reqd	Description	Manufacturer	Part or Spec.
	rioqu	200012701		
	1	Anti-Icing and Structural Temperature Overheat Indi-		
	}	cator	Fenwal	80079-2
Æ .6	1	Indicator, Air Flow Cabin Compressor - Dual	Ham. Standard	537325
)F	1	Dual - Cabin Altitude and		}
i9A	1	Differential Pressure In-		~
IG.		dicator	Kollsman	B26395-10-007
)2	1	Cabin Rate of Climb Indicator	Pioneer Central	1653-6AB-A6-1
)2A		Magnetic Compass	U. S. Gauge	C-4B
	1 4	Exhaust Temperature Indicator	Honeywell	JG246A-2
	4	Indicator Engine Pressure		
		Ratio	Kollsman	B29187-10-001
	4	Reverse Thrust Indicating and Intransit Light	Korry	Base STZ60-AD Cap 2HV5-3
	4	Oil Pressure Low Ind. Light	Korry	ST-260-2HV5-2 (Dual)
	2	Marker Beacon Ind. Light Assy	Korry	Base ST390C
			1	Cap S3V1-1A
	1	Free Air Temperature Bulb	Lewis Eng.	54B-1A
	1	Ram Air Temperature Indicator	Lewis Eng.	161BCL2
-	2	Indicator, Cabin Compressor		
		Bearing Temperature	Ham. Standard	527732
	2	Indicator, Turbine Tachometer/		<u> </u>
		Cabin Compressor (RPM Comp.		1
		Ind.)	Ham. Standard	535461
	2	Warning Light, Cabin Com-	Korry Mfg. Co.	(Socket) ST136-A9
	1	pressor Overspeed Trip		(Bulb) AN3121-313
	1			(Cap) MV1-4
59	*1	Dual-Indicator, Compressor		
		Inlet and Compressor Outlet		-0-
		Temperature		
	[

MACH/AIRSPEED WARNING SYSTEM

1	Warning Bell	Edwards	168-20
1	Mach/Airspeed Switch	Aero Mechanisms	6249
1	Interrupter	Radar Relay Inc.	R-1487

*Effective Ships 14 and on.

CONVAIR

A DIVISION OF GENERAL DYNAMICS CORPORATION (BAN DIEGO)

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APPENDIX I-C

ELECTRICAL EQUIPMENT

		CONVAIR FURNISHED -	CONVAIR INSTALLED	
-	Otro			Part or Spec.
	Qty Reqd	Description	Manufacturer	No.
j				
B		Electrical Equipment Racks Fuel Quantity Power Units		
B		Fuel Qty Tower Unit Mtg Racks /	Mary 1997 and develop	O was Ohanaan
	4	Loadmeters (d-c)	Gen. Electric	A AW 6141AA1
D		Loadmeters (1-c) Voltmeter (d-c)	Gen. Electric	8 DW 84VlAAl
E 7	i	Voltmeter (a-c)	Gen. Electric	8 AW SIVIAAL
	2	Transformers, 1 Phase Stepdown	Osborne	6781 6784
	5 2 1	Transformers, 3-thase	Osborne Sonotone	CA-121-H
	1	Battery, Storage (27.5-Wolt) Nickel - Cadmium	Doilo corre	011 202 11
	1	Position Light Flasher		
	1	Warning Horn	Edwards	318 AVR-869
	2	Power Failure Warning Units	Hartman Micro	V3-1
	1 2 4 4	Ignition Switches Reverse Current Relays	Hartman	A-718K
	i	External Power Receptacle (a-c)	Cannon Elec.	
		(AN 3114-1B)	Burton Elec. Joy Mfg. Co.	255 A6-437M6
			A & J Anderson	4627
	1	External Power Contactor	Gen. Electric	7290574
	4	Transformer Rectifier	Chatham	28 v \$50
	2	Flare Release Solenoids Shaver Outlet Receptacles	Meletron Weber	130
	3	Utility Receptacle	Hubbell	7332
	4	Control Panel-Regulator (a-c)	Gen. Electric	382781F125A1
	1	Battery Relay	Hartman Gen Electric	A718K 729C572
	142314144	Line & Bus Tie Contactor Back-Up Contactors (a-c)	Gen Frecorre	12,001,0
	1	Bus Tie Contactor (d-c)	Hartman	A876
	1 4	Constant Speed Drive	Gen. Blectric	OUT MANIOES
		(Including Disconnect)	Gen. Riecoric	ZULKH4UDI
	4	Constant Speed Drive Load Controller	Gén. Electric	672B750
	4	Generator - 40 KVA, 6000 RPM	Gen. Electric	2CM211A1
	2	Control Switch (for ground		
		starter equipment) Electrical Receptacle (for		
	1	ground starter equipment)	AiResearch	
			(7 pin con-	
		Hamilton Ham Barack Grala Biman	nector)	7162
	1	Warning Horn Repeat Cycle Timer	Prod.	J. V 16
O)	1	Wheel Control Motor (Stabilizer		
U		Trim)	Carrier Carrier	The second second
			The second secon	

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ELECTRICAL EQUIPMENT

Qty Reqd	Description	Manufacturer	Part or Spec.
AR AR AR 4 1 1 2 2	Electrical Equipment Racks Fuel Quantity Power Units' Fuel Qty Power Unit Mtg Racks Loadmeters (d-c) Loadmeters (a-c) Voltmeter (d-c) Voltmeter (a-c) Transformers, 1-Phase Stepdown Transformers, 1-Phase Battery, Storag (2.5-Volt) Nickel - Cadming (2.5-Volt)	Gen. Electric Gen. Electric Gen. Electric Gen. Electric Osborne Osborne Sonotone	8 AW 61A1AA1
1 4	Position Light Flasher Warning Horn Power Failure Parning Units Ignition Switches Reverse Current Relays External Fower Receptable (a-c) (AN 3114-18) External Power Contactor Transformer Rectifier Flare Release Solenoids	Edwards Hartman Micro Hartman Cannon Elec. Burton Elec. Joy Mfg. Co. A & J Anderson Gen. Electric Chatham Meletron	318 AVR-869 V3-1 A-718K 17175-106 255 A6-437M6 4627 7290574 28V350
23141414 4 42 1	Shaver Outlet Receptacles Utility Receptacle Control Panel-Regulator (a-c) Battery Relay Line & Bus Tie Contactor Back-Up Contactors (a-c) Bus Tie Contactor (d-c) Constant Speed Drive (Including Disconnect) Constant Speed Drive Load Controller Generator - 40 KVA, 6000 RPM Control Switch (for ground starter equipment) Klectrical Receptacle (for	Weber Hubbell Gen. Electric	7332 382781F125A1 A718K 729C572 A876 2CLKH4OB1 672B750 2CM211A1
1	Warning Horn Repeat Cycle Timer	Aiflescarch (7-pin connector) Std. Elec. Prod.	7162

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APPENDIX I-C

ELECTRICAL EQUIPMENT

		. /	
Qty	Description	Manufacturer	Part or Spec.
Wedn	Description	Manufacourds	Manhat.
AR	Electrical Equipment Racks		
AR	Fuel Quantity Power Units		
AR	Fuel Qty Power Unit Mtg Racks		
4	Loadmeters (d-c)	Gen. Electric	8 DW 84A1AA1
4	Loadmeters (a-c)	Gen. Electric	8 AW 61A1AA1
1 2 2 1	Voltmeter (d-c)	Gen. Electric	8 DW 84VLAAL
1	Voltmeter (a c)	Gen. Electric	8 AW 61VIAA1
2	Transformers, 1-Phase Stepdown Transformers, 1-Phase	Osborne	6781
2	Transformers, 1-Phase	Osborne	6784
	Battery, Storage (27.5-Volt) Nickel - Cadmium	Sonotone	CA-121-H
1	Position Light Flasher	70.0	-70
1 2 4 4	Warning Horn	Edwards	318 AVR-869
2	Power Failure Warning Units	Hartman Micro	
4	Ignition Switcher	Hartman	V3-1 A-718K
i	Reverse Current Relays External Power Receptable (a-c)		17175-106
1	(AN 3114-1B)	Burton Elec.	
	VAN 2114-FDV	Joy Mfg. Co.	255 A6-437M6
Y		A & J Anderson	4627
1	External Power Contactor	Gen. Electric	7290574
4	Transformer Rectifier	Chatham	28 v s50
	Flare Release Solenoids	Meletron	130
2	Shaver Outlet Receptacles	Weber	
2 3 1 4	Utility Receptacle	Hubbell	7332
1	Control Panel-Regulator (a-c)	Gen. Electric	382781F125A1
i	Battery Relay	Hartman	A718K
4	Line & Bus Tie Contactor	den. Electric	7290572
4	Back-Up Contactors (a-c)		
1	Bus Tie Contactor (d-c)	Hartman	A876
4	Constant Speed Drive (Including Disconnect)	Gen. Electric	2CLKH4OB1
4	Constant Speed Drive Load Controller	Gen. Electric	672B750
4	Generator - 40 KVA, 6000 RPM	Gen. Electric	2CM211A1
2	Control Switch (for ground starter equipment)		
1	Electrical Receptacle (for ground	nd .	
	starter equipment)	AiResearch (7-pin	
1	Warning Horn Repeat Cycle Timer		7162
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ELECTRICAL EQUIPMENT

Ì	Qty Rend	Description	Manufacturer	Part or Spec.
BCB. D	An An 4	Electrical Equipment Racks Fuel Quantity Power Units Fuel Qty Power Unit Mtg Racks Loadmeters (dc) Loadmeters (ac) Voltmeter (dc) Voltmeter (ac) Transformers, 1-Phase Stepdown Transformers, 3-phase Battery, Storage (24 volt or 2-12 volt) - Nickel - Codmium Position Light Flasher	Gen. Electric Gen. Electric Gen. Electric Gen. Electric	8 DW 84AA32 8 AW 61AAB2 8 DW 84VVB2 8 AW 61VVB2 6781 6784
	2	Warning Horn Power Failure Warning Units Flap Take-Off Warning Horn	Hartman	AV::-869
	441	Interrupter Ignition Switches Reverse Current Relays External Power Receptacle (ac) (AN 3114-18) External Power Contactor Transformer Rectifier Flare Release Solenoids	Cannon Elec. Eurton Elec. Toy Mfg. Co. A& J Anderson	V3-1 A-716K 17175-106 255 A6-43716 4627 7290574 28V850
	14261414414	Shaver Outlet Receptacles Utility Receptacle Control Panel-Regulator (ac) Battery elay Line & Bus Tie Contactor Back-Up Contactors (ac) Bus lie Contactor (dc) Constant Speed Drive	Gen. Electric Hartman Gen. Electric	352781F127A1 A716K 729C572 A876
	4	(Including disconnect) Constant Speed Drive Load Controller	Gen. Electric	2CLKH4OA1 6725750
	2	Generator - 40 KVA, 6000 APM Control Switch (for ground starter equipment) Electrical deceptacle (for ground starter equipment)	Gen. Electric Aikesearch (7-pin	2CH211A1
			connector)	

CONVAIR A DISSIDATE SENERAL DYNAMICS (APERATY NEEDS)

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ELECTRICAL EQUIPMENT

	Qurn Lect	Pastription	Manufacturer	Part or
). C	Alt. Al Al	Llectrical Quipment Racks uel Quantity Power Units Fuel Quantity Power Unit Mounting		
	411221	Loadmeters (d-c) Loadmeters (a-c) Voltmeter (d-c) Voltmeter (a-c) Transformers, 1-Phase Stepdown Transformers, 3-Phase Battery, Storage(24 volt or 2-12 v	Gen. Electric Gen. Electric Gen. Electric Gen. Electric Osborne Gsborne	8 AW 61AA 8 AW 61V, 32 6781
	1 1 2 4 4 4 1	Wickel - Cadmium Position Light Flasher Warning Horn Power Failure Warning Units Flap Take-Off Warning Horn Interrupter Ignition Switches Reverse Current Relays External Power, recentable (A-CV)	Micro Hartman	AV869 V3-1 A-718k
	1 4 2 6	External Power recentacle (A-CV (AN 3IIII-IE) External Power Relay Transformer Rectifier Flare Release Solenoics Shaver Outlet Receptacles	Joy Mig. Co. A & J Anderson Gen. Electric	17175-100 255 A6-437m6 4627 A8744 2878 50
	1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4	Utility Receptacle Control Panel-Regulator (A-C) Battery Relay Line & Bus Tie Contactor Lack-Up Contactors (A-C) Bus Tie Contactor (D-C) Constant Speed Drive	Gen Electric	302781F125A1 A718K B-124A A876
	5	(Including Disconnect) Constant Speed Drive Load Controller Generator-40.KVA, 6000 RPM Control Switch (for ground starter equipment)	Gen. Electric Gen. Electric Gen. Electric	20LKH4091 672B750 20M211A1
	1	Electrical Receptacle (for ground starter equipment)	AiResearch (7-p	oin

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INSTRUMENTS AND RELATED EQUIPMENT

Quan Reqd		Manufacturer	Part or Spec.
1		/	
1	Anti-Icing and Structural Tem-	/	00000
1	perature Overheat Indicator Indicator, Air Flow Cabin	Fenwal	80079-2
1 -	Compressor - Duel	Ham. Standard	5 37325
1	Dual - Cabin Altitude and Dif-	nam. Dominara	עשכונע
	ferential Pressure Indicator	Kollsman	B26395-10-007
1	Cabin Rate of Climb lodicator	Pioneer Central	1653-6AB-A6-1
1 1	Magnetic Compass	U. S. Gauge	C-4B
1 4 4	Exhaust Temperature Indicator Indicator Engine Pressure	Honeywell	JG246A-2
1	Ratio	Kollsman	700197 10 001
4	Reverse Thrust Indicating	Korry	B29187-10-001 Base STZ60-AD
	and Intransit Light	noily	Cap 2HV5-3
4	Oil Pressure Low Ind. Light	Korry	ST-260-2HV5-2 (Dual)
2	Marker Beacon Ind. Light Assy	Korry	Base ST390C
	There Adv. Managed and American		Cap S3V1-1A
1 1	Free Air Temperature Bulb	Lewis Eng.	54B-1A
2	Ram Air Temperature Indicator Indicator, Cabin Compressor	Lewis Eng.	161BCL2
_	Bearing Temperature	Ham. Standard	527732
2	Indicator, Turbine Tachometer	nam. Dochaara	721132
	Cabin Compressor (RPM Comp.		
	Ind.)	Ham. Standard	535461
2	Warning Light, Cabin Compres-		
	sor Overspeed Trip	Korry Mfg. Co.	(Socket) ST136-A9
			(Bulb) AN3121-313
			(Cap) MV1-4
1	MACH/AIRSPEED WARNING SYSTEM		
1	Warning Bell	Edwards	168-20
1	Mach/Airspeed Switch	Aero Mechanisms	
, t	Interrupter	Radar Relay Inc.	. R-1487
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INSTRUMENTS AND RELATED EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd.	Description	Manufacturer	Part or Spec. Number
1	Fuel Quantity Totalizer Indicator	Simmonds Aerocess.	393012-01642
4	Fuel Quantity Compensators	Simmonds Aerocess. Simmonds Aerocess.	300047-13001
48	Fuel Quantity Probes	2 ea.	381056-02143 through 381056-02150, 381056-02152, 381056-02277 through
			381056-02284, 381056-02286, 381056-02288 through 381056-02293
5	Fuel Quantity Indicator Repeater	Simmonds Aerocess.	383093-01669
5	Fuel Quantity Indicator Repeater	Simmonds Aerocess.	383093-01670
2	Fuel Quantity Ind. (Counter- Pointer-Type) Tanks #1 and #4	Simmonds Aerocess.	393022-01581
2	Fuel Quantity Ind. (Counter- Pointer-Type) Tanks #2 and #3	Simmonds Aerocess.	393022-01582 8DJ97LAA-1
4	Fuel Flow Indicator Cabin Temperature Indi-	Gen. Blectric	
	cator	Lewis Eng.	162021
1	Cabin Remote Temp. Ind. Sensor and XMTR Tachometer Indicator	Gen. Electric	MS-28034-3 8DJ81-LAB-1
4	Flap Position Indicator -	Gen. Electric	8DJ91LAB-Y1
2	Dual Flap Position Transmitter	Gen. Electric	8TJ39AAH-1 1653-6AB-A6-1
2	Rate of Climb Indicator	Pioneer Central	T022-04P+40-T
2	Turn and Slip Indicator (Electric)	Pioneer Central Wakmann	3924-1AG-B1-1 W33-7530-10
5	Clocks Pressure Indicator	U.S. Gauge	SRL-07J
4	(Hydraulic)/ Hydraulic Pump Failure Light	Korry	MAJ-J

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INSTRUMENTS AND RELATED EQUIPMENT

Quan Reqd	Description	Mapufacturer	Part or Spec. Number
1	Anti-Icing and Structural Temperature Overheat		
1	Indicator Indicator, Air Flow Cabin	Fenwal	80079-2
	Compressor - Dual	Ham. Standard	537325
1	Dual - Cabin Altitude and Differential Pressure	Kollsman	B26395-10-004
1	Indicator cabin Rate of Climb Indi-	Pioneer Central	1653-6AB-A6-1
14	Magnetic Compass	U.S. Gauge	C-4B
4	Exhaust Temperature Indi- cator	Honeywell	JG246A-2
4 /	Indicator Engine Pressure Ratio	Kollsman	B29187-10-001 Base STZ50-AD
1	Reverse Thrust Indicating and Intransit Light	Korry	Cap, 2HV5-3
4	Oil Pressure Low Ind. Light	Korry	ST-260-2HV5-2 (Dual)
2	Marker Beacon Ind. Light Assy	Korry	Base, ST390C Cap, S3V1-1A
1	Free Air Temperature Bulb Ram Air Temperature Indica-	Dewis Eng.	54B-1A
2	tor Indicator, Cabin Compressor	Levis Eng.	161BCL2
2	Bearing Temperature Indicator, Turbine Tachomete	Ham. Standard	527732
	(RPM Comp Ind)	Ham. Standard	535461
2	Warning Light, Cabin Com- pressor Overspeed Trip	Korry Mfg. Co.	(Socket) ST136-A9 (Bulb)AN3121- 313 (Cap) MV1-4
M	MACH/AIRSPEED WARNING SYSTEM		
1 1 1	Warning Bell Mach/Airspeed Switch Interrupter	Edwards Aero Mechanisms Radar Relay Inc.	168 -2C 6249 R-1487

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INSTRUMENTS AND RELATED EQUIPMENT

	CONVAIR FURNI	SHED - CONVAIR INSTA	Lalarit
Quan Reqd	Description	Manufacturer	Part or Spec.
1	Fuel Quantity Totalizer Indicator	Simponds Aerocess.	393012-01642
4 48	Fuel Quantity Compensators Fuel Quantity Probes	Simmonds Aerocess.	300047-13001
		2 ea.	381056-02280 through
	\. /		381056-02284 381056-02286
			381056-02288
	× ×		through 381056-02293 381056-02143
			through 381056-02150
			381056-02152 381056-02277
			381056-02278 381056-02279
2	Fuel Quantity Indicator Repeater	Simmonds Aerocess.	
2	Fuel Quantity Indicator Repeater	Simmonds Aerocess.	383093-01582
2	Fuel Quantity Ind. (Counter Pointer-Type) Tanks #1	STREETOLIGE WELLCARE.	303093=01302
	and #4	Simmonds Aerocess.	393022-01581
5	Fuel Quantity Ind. (Counter Pointer-Type) Tanks #2		
4	and #3 / Fuel Flow Indicator	Simmonds Aerocess. Gen. Electric	393022-01582 8DJ97LAA-1
1	Cabin Temperature Indi-	Lewis Eng.	162021
1	Cabin Remote Temp. Ind. Sensor and XMTR		MS-28034-3
4	Tachometer Indicator Flap Position Indicator -	Gen. Electric	8DJ81-LAB-Y2
	Dual	Gen. Electric	8DJ91LAB-Y1
2	Flap Fosition Transmitter Rate of Climb Indicator	Gen. Electric Pioneer Central	8TJ39AAH-1 1653-6AB-A6-1
2	Turn and Slip Indicator (Electric)	Ploneer Central	3924-1AG-B1-1
5	Clocks Pressure Indicator	Wakmann	W33-7530-10
4	(Hydraulic) Hydraulic Pump Failure	U. S. Gauge	SRL-07L
7	Light	Korry	MV1-1

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INSTRUMENTS AND RELATED EQUIPMENT

	Quan Reqd	Description	Manufacturer	Part or Spec. Number
B	1	Fuel Quantity Totalizer		
	4	Indicator Fuel Quantity Compensators	Simmonds Aerocess. Simmonds Aerocess.	393012-01642
-	2	Fuel Quantity Probes	Simmonds Aerocess.	300047-13001 381056-01277
D A 7 E F	30	Fuel Quantity Probes	Simmonds Aerocess.	2 ea. 381056-02278 thru 381056-02292
E		Fuel Quantity Indicator Repeater	Simmonds Aerocess.	383093-01581
F	2	Fuel Quantity Indicator Repeater		
	2	Fuel Quantity Ind. (Counter- Pointer-Type) Tanks #1	Simmonds Aerocess.	383093-01582
	2	and #4 Fuel Quantity Ind. (Counter-	Simmonds Aerocess.	393022-01581
		Pointer-Type) Tanks #2 and #3	Simmonds Aerocess.	393022-01582
	4	Fuel Flow Indicator	Gen. Electric	8DJ97LAA-1
	ī	Cabin Temperature Indicator Cabin Remote Temp. Ind.	Lewis Eng.	162021
	4	Sensor and XMTR Tachometer Indicator		MS-28034-3
	i	Flap Position Indicator -	Gen. Electric	8DJ81-LAB-Y2
	2	Dual Flap Position Transmitter	Gen. Electric	8DJ91LAB-Y1
	2 2 2	Rate of Climb Indicator	Pioneer Central	8TJ39AAH-1 1653-6AB-A6-1
		Turn and Slip Indicator (Electric)	Pioneer Central	3924-1AG-B1-1
	2	Clocks Pressure Indicator	Wakmann	W33-7530-10
		(Hydraulic)	U. S. Gauge	SRL-07L
	4	Hydraulic Pump Failure Light	Korry	MV1-1 .
		Anti-Icing and Structural Temperature Overhead		Α
	1	Indicator Indicator, Air Flow Cabin	Fenwal	135517
		Compressor - Dual	Ham. Standard	537325
	1	Dual - Cabin Altitude and Differential Pressure Indicator		
	1	Cabin Rate of Climb Indicator	Kollsman Pioneer Central	B26395-10-004
	<u> </u>	Magnetic Compass	II C Course	1653-6AB-A6-1 C-4B
	т .	Exhaust Temperature Indicator	Honeywell	JG246A-1

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INSTRUMENTS AND RELATED EQUIDMENT

		/	
Quan Reqd	Description	Manufacturer	Part or Spec. Number
1	Fuel Quantity Totalizer Indicator	Simmonds Aerocess.	393012-01642
14	Fuel Quantity Compensators	Simmonds Aerocess.	300047-13001
2	Fuel Quantity Probes	Simmonds Aerocess.	381056-01277
30	Fuel Quantity Probes	Simmonds (2 ea) Aerocess.thru	
2	Fuel Quantity Indicator Repeater	Simmonds Aerocess.	383093-01581
2	Fuel Quantity Indicator Repeater	Simmonds Aerocess.	383093-01582
2	Fuel Quantity Ind. (Counter- Pointer-Type)	Simmonds Aerocess.	393022-01581
2	Fuel Quantity Ind. (Counter- Pointer-Type)	Simmonds Aerocess.	393022-01582
1	Fuel Flow Indicator Cabin Temperature Indicator	Gen. Electric Lewis Eng.	8DJ97LAA-1 162C21
1	Cabin Remote Temp. Ind. Sensor and XMTR		MS-28034-3
1	Tachometer Indicator Flap Position Indicator - Dual	Gen. Electric	8DJ81-LAB-1 8DJ91LAB-1
2 2	Flap Position Transmitter Rate of Climb Indicator	Phoneer Cent.	1653-6AB-A6-1
	Turn and Saip Indicator (electric) Clocks	Pioneer Cent.	3924-1AG-B1-1 W33-7530-10
2 2 4	Pressure Indicator (hydraulic) Hydraulic Pump Failure Light	U.S. Gauge Korry	SRL-07K NV1-1
1	Anti-Ioing and Structural Temperature Overheat Indicator	Fenwal	135517
1	Dual-Supercharger Air Flow Ind. Dual-Cabin Altitude and Differ-	Ham. Standard	\$37325
1	ential Pressure Indicator Cabin Rate of Climb Indicator	Kollsman Pioneer Cent.	B26395-10-004 1653-6AB-A6-1
1	Magnetic Compass Exhaust Temperature Indicator	U.S. Gauge Honeywell	C-4B JG 116A TYPE
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APPENDIX I-C

INSTRUMENTS AND RELATED EQUIPMENT

	1	CONVAIR FURNISHED -	CONVAIR INSTALLED	
Qty				Part or Spec.
Read	Description		Manufacturer	Number
1	THE RESERVE AND PERSONS NAMED IN	Totalizer Indicator	Simmonds Aerocess.	393006-20585
4	Fuel Quantity	Compensators	Simmonds Aerocoso.	30047-13001
2	Fuel Quantity	Probes	Simmonds Aerocess.	381056-01277
30	Fuel Quantity	Probes	Simmonds (2 e2) Aerouess.thru	381056-02278 381056-02292
2	Fuel Quantity	Indicator Repeater	Simmonds Aerocess.	383093-01581
2	Fuel Quantity	Indicator Repeater	Simmonds Aerocess.	383093-01582
2	Fuel Quantity		Simmonds Aerocess.	383053-05581
2	Pointer Type Fuel Quantity Pointer Type	Ind. (Counter	Simmonds Aerocess.	383053-05582
4 1	Fuel Flow Ind Cabin Tempera	icator ture Indicator	Lewis Eng.	162021
1 4	Cabin Tempera Tachometer In Flap Position	dicator	Gen. Electric Gen. Electric	8DJ81-LAB 8DJ91LAB-1
2 2	Flap Position Rate of Climb	Transmitter	Pioneer Cent.	1653-6AB-A6-1
2	Turn and Bank (electric)	Indicator	Pioneer Cent.	3924-1AG-B-1
. 2	Clocks	eator (hydraulic)	Wakmann U.S. Gauge	W33-7530-10 SRL-07 plus range markings
4/	Hydraulic Pur	p Failure Light		Lauge marking
AR/ AR	Structural Te	r Temperature Ind. mperature Over Heat		
1	Indicator Dual Supercha	rger Air Flow Ind.	Ham. Standard	537325
1	Dual Cabin Al ferential P	titude and Dif- ressure Indicator Climb Indicator	Kollsman Pioneer Cent.	B26395-10-004 1653-6AB-A6-1
1	Magnetic Comp	268	U.S. Gauge	C-4B
2 4	Artificial Ho Exhaust Temps	rizons (4 inch) rature Indicator	Sperry Honeywell	JG 116A TYPE

ANALYTIS PILEARID BY CHECKED BY NEVI LOBY

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100 A-7 MODEL 22 CAFE 9-10-50 1ev. 1-17-50

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CHVAL FUNDAND - CONVAL THE WALL D

Otre			Fare or Spec.
Qty ead	Description	lanufacturer	innion
1	Fuel Quartity Potalizer Indicator	Simmonds	393006-20505
4	Fuel Quantity Compensators	Aerocess. Simmonds Aerocess.	300047-13002
2	Fuel Quantity Arobys	Simmonds Aerocess	381056-01277
30	Fuel Quantity Propes	Simmonds (2 ea)361056-02278 381056-02252
2	Fuel Quantity Indicator Repeater	Simmonds Aerocess.	383093-01561
2	Fuel Quantity Indicator Repeater	Simmonds Aerocess.	383093-01582
2	Fuel Quantity Ind. (Counter	Simmonds Aerocess.	383053-05581
2	Pointer Type) Fuel Quantity Ind. (Counter Pointer Type)	Simmonds Aerocess.	383053-05582
1 1	Fuel Flow Indicator Cabin Temperature Indicator	Lewis Eng.	160021
4	Cabin Temperature Bulb Tachometer Indicator Flap Position Indicator - Dual	Gen. Electric Gen. Electric	CDJUL-INH UDJ91LAD-1
2 2	Flap Position Transmitter	Pioneer Cent.	1653-6AI-A6-1
5 5 5	Turn and Bank Indicator (electric) Clocks Pressure Indicator (hydraulic)	Pioneer Cent. Wakmann U.S. Gauge	3920-laD-Al-1 W33-7530-10 S.L-07 plus range markings
A.A.R	Hydraulic Pump Failure Light Anti-icing Air Temperature Ind. Structural Temperature Over Heat	The state of the s	
1	Indicator Dual Supercharger Air Flow Ind.	Ham. Standard	537325
1 1 1	Dual tabin Altitude and Dif- ferential Pressure Indicator Cabin Rate of Climb Indicator Magnetic Compass	Kollsman Pioneer Cent. U.S. Gauge	B26395-10-004 1653-6AB-46-1 C-4B
24	Artificial Horizons (4 inch) Exhaust Temperature Indicator	Sperry Honeywell	JG 116A TYPL

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INSTRUMENTS AND RELATED EQUIPMENT

	Quan	Danandukkan	20	Part or Spec
	Read	Description	Manufacturer	Number
i	1	Fuel Quantity Totalizer Indicator	Simmonds	383053-04585
			Aerocess.	
C	4	Fuel Quantity Compensators	Simmonds	300047-13001
1			Aerocess.	20224
	2	Fuel Quantity Probes	Simmonds	381056-01277
,	30	Fuel Quantity Probes	Aerocess. Simmonds /(2 ea	1281056_02278
	50	ruer quantity flopes	Aerocess thru	381056-02292
	2	Fuel Quantity Indicator Repeater	Simmonds	383093-01581
			Aerocess.	
	2	Fuel Quantity Indicator Repeater	Simmonds	383093-01582
	2	Fuel Quantity Ind. (Counter Pointer	Aerocess. Simmonds	383053-01581
1	4	Type)	Aerocess.	303073-01701
	2	Fuel Quantity Ind. (Counter Pointer	Simmonds	383053-01582
		Type)	Aerocess.	
i	4	Fuel Flow Indicators	Taraka Mari	3/0003
	1	Cabin Temperature Indicator	Lewis Eng.	162021
	量	Tachometer Indicators	Gen. Electric	8DJ81-LAB
	i	Flap Position Indicator - Dual	Gen. Electric	8DJ91LAB-1
	1 2 2 2 2	Flap Position Transmitter		
	2	Rate of Climb Indicators	Pioneer Cent.	1653-6AB-A6-1
	2	Turn and Bank Indicators	Pioneer Cent.	3920-1AD-A1-1
	2	(electric) Clocks	Wakeman	W33-7530-10
	2	Pressure Indicators (hydraulic)	U.S. Gauge	SRL-07 plus
				range markings
	4	Hydraulic Pump Failure Light		
	AR AR	Anti-icing Air Temperature Indicator Structural Temperature Over Heat		
	MIV	Indicator		
	1	Dual Supercharger Air Flow Indicator		
	1	Dual Cabin Altitude & Differential		
	-	Pressure Indicator	Kollsman	B26395-10-004
	1	Cabin Rate of Climb Indicator	Pioneer Cent. U.S. Gauge	1653-6AB-A6-1 C-4B
	1 2 4	Magnetic Compass Artificial Horizons (4 inch)	Sperry	0 - 10
	4	Exhaust Temperature Indicators	Honeywell	JG 116A TYPE
	4	Indicator Engine Pressure Ratio	Kollsman	A29187-10-001
	14	Reverse Thrust Indicating Lights		
	14 14	Fuel Tank Low Pressure Indicator Light Oil Pressure Low Indicator Light	T	*
	2	Marker Beacon Indicator Light Assembly	У	

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* PENDIX I-C

INSTRUMENTS IND RELATED FOUIPMENT

	INSTRUMENTS OND RELATED FQUIPM	314 12	
	CONVIR FURNISHED - CONVIR INS	מתווח	
	OCHA ITH BANKT BID - COLATIV INC.	1 .11: 50	
Quan		Pr	art or Spe
Reqd	Description Manufa	actiner	Number
,		1	
AR AR	Fuel Cuantity Totalizer Indicator		
AR	Fuel Quantity Compensators Fuel Quantity Probes		
AR	Fuel Cuantity Indicators		
NIC.	(direct reading)		
4	Fuel Quantity Indicators		
	Fuel Flow Indicators		
1 1 1 1	Cabin Temperature Indicator		
1	Cabin Temperature Bult		
1	Cockpit Temperature Indicator		
1	Cockpit Temperature Bulb		
4	Tachometer Indicators		
1 1	Flap Position Indicator - Dual		
1 2 2 2	Flap Position Transmitter		
2	Rate of Climb Indicators		
2	Turn and Bank Indicators		
2	(electric) Clocks		
2 2	Pressure Indicators (hydraulic)		
1 4	Hydraulic Pump Failure Light		
AR	Anti-icing Air Temperature		
	Indicator		
AR	Structural Temperature Over heat		
	Indicator		
2	Cabin Supercharger Oil Tempera-		
	ture Indicator		
2	Compressor Lube Oil Pressure		
,	Indicator, Synchro.		
1	Dual Supercharger Air Flow		
2	Indicator		
2	Cabin Compressor Duct Pressure		
1	Cabin Altitude Indicator	1	
î	Cabin Rate of Climb Indicator	1	
Ī	Magnetic Compass	1	
2	Artificial Horizons (4 inch)	Spenry	
14	Exhaust Temperature Indicators	1	
4	Pressure Ratio Indicators		
4	Reverse Thrust Indicating Lights		
4	Fuel Tank Low Pressure Indicator Light		
4	Oil Pressure Low Indicator Light		
2	Marker Beacon Indicator Light Assembly		14
1	Outside Air Temperature Bulb		
1	Outside Air Temperature Indicator		

WODEL 55

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	uan eqd	Description	Manufacturer	Part or Spec. Number
	2	Rate-of-Climb Indicator Turn and Slip Indicator	Pioneer Central	1653-6AB-A6-1
١,	\$2 2	(Electric Clocks Pressure Indicator	Pioneer Central Wakmann	3924-1AG-B1-1 W33-7530-10
1	d2	(Hydraulic) Pressure Indicator	U. S. Gauge	SRL-07J
1	4	(Hydraulic) Hydraulic Pump Failure	d. S. Gauge	SRL-07K
	1	Light Anti-Icing and Structural	Korry	MV1-1
	1	Temperature Overheat Indicator Indicator, Air Flow Cabin	Fenwal	80079-2
	1	Compressor - Dual Dual - Cabin Altitude and	Ham. Standard	537325
	1	Differential Pressure Indicator Cabin Rate of Climb Indi-	Kollsman	B26395-10-007
	1	cator Magnetic Compass	Pioneer Cental U. S. Gauge	1653-6AB-A6-1 C-4B
	4	Exhaust Temperature Indi- cator	Honeywell	JG246A-2
	ช4 ช4	Indicator Engine Pressure Ratio Indicator Engine Pressure	Kollsman	B29187-10-001
رط	4	Ratio Reverse Thrust Indicating	Kollsman Korry	C29187-10-001 Base STZ60-AD
	4	and In-Transit Light Oil Pressure Low Ind. Light	Korry	Cap 2HV5-3 ST-260-2HV5-2(Dual)
	2	Marker Beacon Ind. Light	Korry	Base ST390C Cap S3V1-1A
	1	Free Air Temperature Bulb Ram Air Temperature Indi-	Lewis Eng.	54B-1A
	-	cator	Lewis Eng.	161BCL2
		ØEffective Ships 1 through 13		

øøEffective Ships 14 and on

CONVALRA A DIVISION OF GENERAL SYNAMICS COMPORATION SAN DIEGO

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Dual - Cabin Altitude and Differential Pressure Indicator Cabin Rate of Climb Indi- cator Magnetic Compass Exhaust Temperature Indi- cator Indicator Engine Pressure Ratio Reverse Thrust Indicating and Intransit Light Oil Pressure Low Ind. Light Marker Beacon Ind. Light Assy Pioneer Central U.S. Ga Honeywe Kollsma Korry Korry Korry Korry Light Korry Light Free-Air Temperature Bulb Ram Air Temperature Indica-	80079-2 andard 537325 .n 1653-6AB-A6-1
Temperature Overheat Indicator Indicator, Air Flow Cabin Compressor - Dual Dual - Cabin Altitude and Differential Pressure Indicator Indicator Cabin Rate of Climb Indi- cator Magnetic Compass Exhaust Temperature Indicator Indicator Engine Pressure Ratio Reverse Thrust Indicating and Intransit Light Cil Pressure Low Ind. Light Marker Beacon Ind. Light Assy Free Air Temperature Eulb Ram Air Temperature Indica-	andard 537325 .n 1653-6AB-A6-1
Compressor - Dual Dual - Cabin Altitude and Differential Pressure Indicator Cabin Rate of Climb Indi- cator Magnetic Compass Exhaust Temperature Indi- cator Indicator Engine Pressure Ratio Reverse Thrust Indicating and Intransit Light Cipht Marker Beacon Ind. Light Assy Pioneer Central U.S. Ga Honeywe Kollsma Korry Korry Korry Korry Korry Light Korry Light Ram Air Temperature Bulb Ram Air Temperature Indica-	n 1653-6AB-A6-1
Differential Pressure Indicator Cabin Rate of Climb Indi- cator Magnetic Compass Exhaust Temperature Indi cator Indicator Engine Pressure Ratio Reverse Thrust Indicating and Intransit Light Oil Pressure Low Ind. Light Marker Beacon Ind. Light Assy Free-Air Temperature Bulb Ram Air Temperature Indica- Kollsma Kollsma Korry Korry Korry Lewis E	1653-6AB-A6-1
Exhaust Temperature Indi- cator Indicator Engine Pressure Ratio Reverse Thrust Indicating and Intransit Light Oil Pressure Low Ind. Light Marker Beacon Ind. Light Assy Pree-Air Temperature Bulb Ram Air Temperature Indica- Honeywe Kollsma Korry Korry Light Korry	
Indicator Engine Pressure Ratio Reverse Thrust Indicating and Intransit Light Coil Pressure Low Ind. Light Marker Beacon Ind. Light Assy Pree Air Temperature Bulb Ram Air Temperature Indica- Korry Lewis E	11 JG246A-2
and Intransit Light Korry Oil Pressure Low Ind. Light Korry Marker Beacon Ind. Light Assy Korry Free Air Temperature Bulb Lewis E Ram Air Temperature Indica-	n B29187-10-001
Light Korry 2 Marker Beacon Ind. Light Assy Korry 1 Free-Air Temperature Bulb Lewis H Ram Air Temperature Indica-	Base STZ60-AD Cap, 2HV5-3
Assy 1 Free Air Temperature Bulb Lewis H 1 Ram Air Temperature Indica-	ST-260-2HV5-2 (Dual)
	Base, ST390C Cap, S3V1-1A Eng. 54B-1A
tor Lewis E	Eng. 161BCL2
2 Indicator, Cabin Compressor Bearing Temperature Ham. St 2 Indicator, Turbine Tachometer	candard 527732
(RPM Comp. Ind.) Ham. St	candard 535461
2 Warning Light, Cabin Com- pressor Overspeed Trip Korry M	ifg. Co. (Socket) ST136-A9
MACH/AIRSPEED WARNING SYSTEM	(Bulb)AN3121-313 (Cap) MV1-4
l Warning Bell Edwards l Mach/Airspeed Switch Aero Me l Interrupter Radar F	(Bulb)AN3121-313 (Cap) MV1-4

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INSTRUMENTS AND RELATED EQUIPMENT

			SONTALL INDIALLS	
	Quan Reqd	Description	Manufacturer	Part or Spec.
19E 216 19F	1	Anti-Icing and Structural Temperature Overhead Indicator	Taum 1	
59A	1	Indicator, Air Flow Cabin	Fenwal .	135517
	1	Dual - Cabin Altitude and Differential Rressure	Ham. Standard	537325
	1	Indicator Cabin Nate of Climb Indi-	Kollsman Pioneer Central	B26395-10-004 1653-6AB-A6-1
	" .1 Tre ::	Cator Magnetic Compass Exhaust Temperature Indi	U.S. Gauge	c-4B
	4	cator Indicator Engine Pressure	Honeywell	JQ246A-1
	4	Ratio Reverse Thrust Indicating	Kollsman	B29187-10-001
-	24	and Intransit Light Oil Pressure Low Ind.	Korry	Cap, 2HV5-3
	3	Light	Korry	ST-260-2HV5-2 (Dual)
	2	Marker Beacon Ind. Light	Korry	Base, 87390
	1	Free Air Temperature Bulb Ram Air Temperature Indica-		Cap, 83V1-1 54B-1A
	2	tor Indicator, Cabin Compressor	Lewis Eng.	161BCL2
-	2	Bearing Temperature Indicator, Turbine Tachom- eter Cabin Compressor	Ham. Standard	527732
	2	(RFM Comp Ind) Warning Light, Cabin Com-	Ham. Standard	535461
			Korry Mfg. Co.	(Socket) ST136-A9 (Bulb) AN3121-313 (Cap) MV1-4
	M	ACH/AIRSPEED WARNING SYSTEM		
	1 1 1	Warning Bell Mach/Airspeed Switch Interrupter	Edwards Pioneer Central Radar Relay Inc.	168-2C Type 31000 R-1487

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INSTRUMENTS AND RELATED EQUIPMENT

Quan Reqd	Description	Manuferstrum	Part or Spec.
rieda	Describerou	Manufacturer	Number
4	Indicator Engine Pressure Ratio	Walleman.	D0010H 70 001
4	Reverse Thrust Indicating and Intransit Light	Kollsman Korry	B29187-10-001 Base, ST260-AD
4	Oil Pressure Low Ind. Light	Korry	Cap, 2HV5-3 ST-260-2HV5-2
2	Marker Beacon Ind. Light Assy	Korry	(Dual) Base, ST390
1	Free Air Temperature Bulb Ram Air Temperature Indica-	Lewis Eng.	Cap, S3V1-1 54B-1A
2	tor Indicator, Cabin Compressor	Lewis Eng.	161BCL2
2	Bearing Temperature Indicator, Turbine Tachometer	Ham. Standard	527732
	Cabin Compressor (RPM Comp		
2	Ind) Warning Light, Cabin Compres-	Ham. Standard	535461
	sor Overspeed Trip	Korry Mfg. Co.	(Socket) ST136-A9 (Bulb) AN3121-313 (Cap) MV1-4
M	ACH/AIRSPEED WARNING SYSTEM		, , , , , , , , , , , , , , , , , , , ,
1 1 1	Warning Bell Mach/Airspeed Switch Interrupter	Edwards Pioneer Central Radar Relay Inc.	168-20 Type 31000 R-1487

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INSTRUMENTS AND RELATED EQUIPMENT

		Qty Reqd	Description	Manufacturer	Part or Spec.
	9 B	4	Indicator Engine Pressure Ratio Reverse Thrust Indicating Light	Kollsman	B29187-10-001
		4	Oll Pressure Low Ind. Light	Korry	ST-260-2HV5-2 (dual)
		2	Marker Beacon Ind. Light Assy	Korr;	hase-\$t390 Cap-\$3V1-1
		1 2	Free Air Temperature Bulb Ram Air Temperature Indicator	Lewis Eng.	54B-1A 161BCL2
		2	Indicator, Cabin Compressor Bearing Temperature	Ham. Standard	527732 ,
		2	Indicator, Turbing Tachometer, Cabin Compressor	Ham. Standard	535461
		2	Warning Light, Cabin Compression Overspeed Trip		
917	2 16		MACH/AIRSPEED VARNING SYSTEM		
		1	Warning Bell Mach/Airspeed Switch	Edwards Pioneer/	168-20 Type 31000
		1	Interrupter	Central	R-1487"

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INSTRUMENTS AND RELATED EQUIPMENT

Regd	Description	Manufacturer	Number
<u>4</u>	Indicator Engine Pressure Ratio Reverse Thrust Indicating Light	Kollsman	B29187-10-001
4	Oil Pressure Low Ind. Light	Korry	ST-260-2HV5-2 (dual)
2	Marker Beacon Ind. Light Assy	Korry	Base-St390 Cap-S3V1-1
1	Free Air Temperature Bulb	Lewis Eng.	54B-1A
1 2	Ram Air Temperature Indicator Indicator, Cabin Compressor	Lewis Eng.	161BCL2
	Bearing Temperature	Ham. Standard	527732
2	Indicator, Turbine Tachometer, Cabin Compressor	Ham. Standard	535461
2	Warning Light, Cabin Compres-		,
	sor Overspeed Trip	a.	•

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INSTRUMENTS AND RELATED EQUIPMENT

Quan Regd	Description	Manufacturer	Part or Spec Number
1	Outside Air Temperature Bulb	Lewis Eng.	54B-1
2	Ram Air Temperature Indicator Indicator, Cabin Compressor Bearing	Lewis Eng.	161BCL2
2	Temperature Indicator, Turbine Tachometer, Cabin		
2	Compressor Warning Light, Cabin Compressor Low	9	
2	Oil Pressure Warning Light, Cabin Compressor		
	Overspeed Trip		

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INSTRUMENTS AND RELATED EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

- 1				
_	Quan Reqd	Description	Manufacturer	Part or Spec. Number
	ø2	Indicator, Cabin Compressor	11 Olas 2 2	507700
	øø2	Bearing Temperature Indicator, Cabin Compressor	Ham. Standard Ham. Standard	527732 562623 or
	ø2	Dearing Temperature Indicator, Turbine Tachom-	Fenwal	80062-5
		meter Cabin Compressor (RPM Comp. Ind.)	Ham. Standard	535461
	øø2	Indicator, Turbine Tachom-	nam. Boardard	,
		meter Cabin Compressor (RPM Comp. Ind.)	Ham. Standard	562208
	2	Warning Light, Cabin Com- pressor Overspeed Trip	Korry Mfg. Co.	(Socket)ST136-A9 (Bulb) AN3121-313
	*1			(Cap) MV1-4
	"1	Dual - Indicator, Compressor Inlet and Compressor Out-		
		let remperature		
1				
	M	ACH/MIRSPEED WARNING SYSTEM		
	1	Warning Bell	Sperti-Faraday	80364 Type J-3

- Mach-Airspeed Switch
- Interrupter

Aero Mechanisms 6249 Radar Relay Inc. R-1487

*Effective Ships 14 and on

øEffective Ships 1 through 10 øØEffective Ships 11 and on

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APPENDIX I-C

INSTRUMENTS AND RELATED EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
<u> </u>	REMOTE COMPASS SYSTEM (SPERRY C-10)		
2222	Flux Valve Remote Compass Indicator C-6L Direction Gyro Rack Assembly, consisting of:	Sperry Sperry Sperry	620359 1777213-623 613260-2
	*1 Servo Amplifier **1 Servo Amplifier 1 Slaving Amplifier 1 Rack	Sperry Sperry Sperry Sperry	618379 1783867-1 621107 614937-10
<u> </u>	AUTO PILOT		
1	Stabilizer Computer, consisting of: 1 Servo Amplifier 2 Servo Amplifier 1 Safety Monitor 1 Trim Coupler 1 Stabilizer Computer Rack	Sperry Sperry Sperry Sperry Sperry Sperry	1776002-5 619298-5 619298-4 1775389-1 1775390-7 1776258-1
1	Flight Control Computer, consist- ing of: 1 Yaw Command Computer 1 Roll Command Computer 1 Pitch Command Computer 1 Radio Coupler	Sperry Sperry Sperry Sperry Sperry	1776003-21 620134-3 1775339-3 1775391-4 1775388-4 or 1782104-4
	1 Pressure Computer	Sperry	1775882-10 or 1784027
1 1 4 2 1	l Interlock Rack Vertical Gyro Gain Calibrator Linear Accelerometer Linear Accelerometer Rudder Servo Drive	Sperry Sperry Sperry Sperry Sperry Sperry	1704027 1775392-3 2585297 1776710-03 615794-1 615794-2 615743-09
	Allegantina China 3 thursday 32		

*Effective Ships 1 through 13
**Effective Ships 14 and on

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INSTRUMENTS AND RELATED EQUIPMENT

	Quan Reqd Description	Manufacturer	Part or Spec.
	REMOTE COMPASS SYSTEM (SPERRY C-10	/	
<u> </u>	2 Flux Valve 2 Remote Compass Indicator C-6L 2 Direction Gyro 2 Rack Assembly, consisting of:	Sperry Sperry Sperry	620359 1777213-623 613260-2
<u>a</u>	2 Rack Assembly, consisting of: 1 Servo Amplifier 1 Slaving Amplifier 1 Rack	Sperry Sperry Sperry	618379 621107 614937-10
E	AUTO PILOT		
H	1 Stabilizer Computer, consisting 1 Servo Amplifier 2 Servo Amplifier 1 Safety Monitor 1 Trim Coupler 1 Stabilizer Computer Rack	of: Sperry Sperry Sperry Sperry Sperry Sperry	1776002-5 619298-5 619298-4 1775389-1 1775390-7 1776258-1
	l Flight Control Computer, Con- sisting of: l Yaw Command Computer l Roll Command Computer l Pitch Command Computer l Radio Coupler	Sperry Sperry Sperry Sperry Sperry	1776003-21 620134-3 1775339-3 1775391-4 1775388-4 or 1782104-4
	1 Pressure Computer	Sperry	1775882-10 or
!9	l Interlock Rack l Vertical Gyro l Gain Galibrator Linear Accelerometer Linear Accelerometer l Rudder Servo Drive l Elevator Servo Drive l Aileron Servo Drive servo Bracket "Yaw Damper Tester l Auto Pilot Controller l Auto Pilot Indicator Trim Servo Motor and Drive Autopilot Trim Servo Bracket ""Computer, Flight Director ""Switch, Mode Selector	Sperry	1784027 1775392-3 2585297 1776710-03 615794-1 615794-2 615743-09 615743-10 615743-10 615144-01 1777967-1 1776001-1 1776004-5 1778879-21 1780310 1780607-3 1778905-2
	*#Effective Ships 1 through 13. **Effective Ships 14 and on.		

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/19G /19H

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INSTRUMENTS AND RELATED EQUIPMENT

Quan Reqd	Description	Manufacturer	Part or Spec.
F	REMOTE COMPASS SYSTEM (SPERRY C-10)		
5 5 5	Flux Valve Remote Compass Indicator C-6L Direction Gyro	Sperry Sperry Sperry	620359 1777213-623 613260-2
2	Rack Assembly, consisting of: 1 Servo Amplifier 1 Slaving Amplifier 1 Rack	Sperry Sperry	618379 621107 614937-10
1	AUTO PILOT	•	
1	Stabilizer Computer, consisting of: 1 Servo Amplifier 2 Servo Amplifier 1 Safety Monitor 1 Trim Coupler 1 Stabilizer Computer Rack	Sperry Sperry Sperry Sperry Sperry Sperry Sperry	1776002-5 619298-5 619298-4 1775389-1 1775390-7 1776258-1
1	Flight Control Computer, consisting of: 1 Yaw Command Computer 1 Roll Command Computer 1 Pitch Command Computer 1 Radio Coupler	Sperry Sperry Sperry Sperry Sperry	1776003-21 620134-3 1775339-3 1775391-4 1775388-4 or 1782104-4
	1 Pressure Computer	Sperry	1782104-4 1775882-10 r 1784027
1142111311111	l Interlock Rack Vertical Gyro Gain Calibrator Linear Accelerometer Linear Accelerometer Rudder Servo Drive Elevator Servo Drive Aileron Servo Drive Servo Bracket Yaw Damper Tester Auto Pilot Controller Auto Pilot Indicator Trim Servo Motor and Drive Autopilot Trim Servo Bracket	Sperry	1775392-3 2585297 1776710-03 615794-1 615794-2 615743-09 615743-03 615743-10 615144-01 1777967-1 1776001-1 1776004-5 1778879-21 1780310

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INSTRUMENTS AND RELATED EQUIPMENT

Quan Reqd	Description	Manufacturer	Part or Spec. Number
R	EMOTE COMPASS SYSTEM (SPERRY C-	10)	
2 2 2 2	Flux Valve Remote Compass Indicator C-6L Direction Gyro Rack Assembly, consisting of:	Sperry Sperry Sperry	620359 1777213-623 613260-2
	1 Servo Amplifier 1 Slaving Amplifier 1 Rack	Sperry Sperry Sperry	618379 621107 614937-10
A	UTO PILOT		
1	Stabilizer Computer, consist- ing of: 3 Servo Amplifier 1 Safety Monitor 1 Trim Coupler 1 Stabilizer Computer Rack Flight Control Computer, con-	Sperry Sperry Sperry Sperry Sperry	1776002-5 619298-1 1775389-1 1775390TBA 1776258-1
1142331	sisting of: 1 Yaw Command Computer 1 Roll Command Computer 1 Pitch Command Computer 1 Radio Coupler 1 Pressure Computer 1 Interlock Rack Vertical Gyro Gain Calibrator Linear Accelerometer Linear Accelerometer Servo Drive Servo Bracket Yaw Damper Tester	Sperry	1776003-2 620134-3 1775339 1775388 1775882-4 1775392-2 617926-1 1776710-03 615794-1 615794-2 615743-13 615144-01 177796 7 -1
1 1 1 1	Auto Pilot Controller Auto Pilot Indicator Trim Servo Motor and Drive Autopilot Trim Servo Bracket	Sperry Sperry Sperry Sperry	1776001=1 1776004-1 1778879-41 1780310

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INSTRUMENTS AND RELATED EQUIPMENT

	CONVAIR FURNISHED - CONVAIR INSTALLED				
Quar Requ		Manufacturer	Part or Spec. Number		
	REMOTE COMPASS SYSTEM (SPERRY C-10)				
2000	Flux Valve Remote Compass Indicator C-6L Direction Gyro Rack Assembly, consisting of:	Sperry Sperry Sperry	620359 1777213-623 613260-2		
	l Servo Amplifier l Slaving Amplifier l Rack	Sperry Sperry Sperry	618379 621107 614937-10		
	AUTO PILOT				
1	Stabilizer Computer, consisting of: 3 Servo Amplifier 1 Safety Monitor 1 Trim Coupler 1 Stabilizer Computer Rack	Sperry Sperry Sperry Sperry Sperry	1776002-3 619298-1 1775389 1775390 1776258		
1	Flight Control Computer, consisting of: 1 Yaw Command Computer 1 Roll Command Computer 1 Pitch Command Computer 1 Radio Coupler 1 Pressure Computer 1 Interlock Rack	Sperry Sperry Sperry Sperry Sperry Sperry Sperry Sperry	1776003-2 620134-3 1775339 1775391 1775388 1775882-4 1775392-2		
1 4 2 3 3 1 1 1 1	Vertical Gyro Gain Calibrator Linear Accelerometer Linear Accelerometer Servo Drive Servo Bracket Yaw Damper Tester Auto Pilot Controller Auto Pilot Indicator Trim Servo Motor and Drive Autopilot Trim Servo Bracket	Sperry	617926-1 1776710-03 615794-1 615794-2 615743-13 615144-01 1777967 1776001-1 1776004-1 1778879-41		

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INSTRUMENTS AND RELATED EQUIPMENT

Quan Read	Description	Manufacturer	Part or Spec.
	REMOTE COMPASS SYSTEM (SPERRY C-10)	/	
2222	Flux Valve Remote Compass Indicator C-6L Direction Gyro	Sperry Sperry Sperry	620359 1777213-620 613260-2
2	Rack Assembly, consisting of: 1 Servo Amplifier 1 Slaving Amplifier 1 Rack	Sperry Sperry Sperry	618379 621107 614937-10
	AUTO PILOT		
1	Stabilizer Computer, consisting of 3 Servo Amplifier 1 Safety Monitor 1 Trim Coupler 1 Stabilizer Computer Rack	f:Sperry Sperry Sperry Sperry Sperry	1776002-3 619298-1 1775389 1775390 1776258
1	Flight Control Computer, con-	Sperry	1776003-1
	sisting of: 1 Yaw Command Computer 1 Roll Command Computer 1 Pitch Command Computer 1 Radio Coupler 1 Pressure Computer 1 Interlock Rack	Sperry Sperry Sperry Sperry Sperry Sperry	620134 1775339 1775391 1775388 1775882-4 1775392-3
1142731111	Vertical Gyro Gain Calibrator Linear Accelerometer Linear Accelerometer Servo Drive Servo Bracket Yaw Damper Tester Auto Pilot Controller Auto Pilot Indicator	Sperry	617926-1 1776710-03 615794-1 615794-2 615743-03 615144-01 1777967 1776001-1 1776004-1 1778879-41
1	Trim Servo Motor and Drive Trim Servo Sprocket and Bracket	Sperry Sperry	1780310

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INSTRUMENTS AND RELATED EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED				
Qty Reqd	Description	Manufacturer	Part or Spec.	
	REMOTE COMPASS SYSTEM (SPERRY C-10)			
5 5	Flux Valve Remote Compass Indicator C-6L Direction Gyro	Sperry Sperry Sperry	620359 1777213-620 613260+2	
2	Rack Assembly, consisting of: 1 Servo Amplifier 1 Slaving Amplifier 1 Rack	Sperry Sperry Sperry	618379 621107 614937-10	
	AUTO PILOT			
1	Stabilizer Computer, consisting of: 3 Servo Amplifier 1 Safety Monitor 1 Trim Coupler 1 Stabilizer Computer Rack	Sperry Sperry Sperry Sperry	1776002-1 619298-1 1775389 1775390 1776258	
1	Flight Control Computer, con- sisting of: 1 Yaw Command Computer 1 Holl Command Computer 1 Fitch Command Computer 1 Radio Coupler 1 Pressure Computer 1 Interlock Rack	Sperry Sperry Sperry Sperry Sperry Sperry Sperry	1776003-3 620134 1775339 1775391 1775388 1775882-4 1775392-3	
142331111111	Vertical Gyro Gain Calibrator Linear Accelerometer Linear Accelerometer Servo Drive Servo Bracket Yaw Damper Tester Auto Pilot Controller Auto Pilot Indicator Trim Servo Motor and Drive Trim Servo Sprocket and Bracket	Sperry	617926-1 1776710-03 615794-1 615794-2 615743-03 615144-01 1777967 1776001-1 1776004-1 669388-11 669352	

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Qty Read	Description	Manufacturer	Part or Spec.
2 2 2 2	Flux Valve Remote Compass Addicator C-61 Direction Gyro	Sperry Sperry Speyry	620359 1777213-620 613260-2
-	l Servo Amplifier l Slaving Amplifier l Mack	Sperry Sperry Sperry	618379 621107 614937-10
A	UPO PILOT		
L	Stabilizer Computer, convist-	Sperry	1776002-1
	3 Servo Amplifier 1 Safety Monitor 1 Trim Coupler 1 Stabilizer Computer Lyck	Sperry Sperry Sperry	619298-1 1775389 1775390 1776258
1	Flight Control Computer con-	Sperry	1776003-3
	- 1 Yaw Command Computer 1 Roll Command Computer 1 Pitch Command Computer 1 Radio Coupler 1 Pressure Computer 1 Interlock Rack	Sperry Sperry Sperry Sperry Sperry Sperry Sperry	620134 1775339 1775391 1775388 1775882-4 1775392- 803
1124233111111	Vertical Gyro Gain Calibrator Linear Accelerometer Linear Accelerometer Servo Drive Servo Bracket Yaw Damper Tester Auto Pilot Controller Auto Pilot Indicator Trim Servo Motor and Drive Trim Servo Sprocket and Bracket	Sperry	617926-1 1776710-03 -615794-1 615794-2 615743-03 615144-01 1777967 1776004-1 669388-11 669352
	1 2222 A 1142331111	Renote Compass System (SPERMY C-10) 2 Flux Valve 2 Remote Compass Indicator C-6h 2 Direction Gyro 2 Mack Assembly, consisting of: 1 Servo Amplifier 1 Slaving Amplifier 1 Mack AUTO PILOT 1 Stabilizer Computer, consisting of: 3 Servo Amplifier 1 Safety Monitor 1 frim Coupler 1 Stabilizer Computer consisting of: - 1 Yaw Command Computer 1 Roll Command Computer 1 Roll Command Computer 1 Pitch Command Computer 1 Pressure Computer 1 Pressure Computer 1 Interlock Mack 1 Vertical Gyro 1 Gain Calibrator 2 Linear Accelerometer 2 Linear Accelerometer 3 Servo Bracker 1 Yaw Damper Tester 1 Auto Pilot Controller 1 Auto Pilot Indicator 1 Trim Servo Motor and Drive	REMOTE COMPASS SYSTEM (SPERTY C-10) 2 Flux Valve

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INSTRUMENTS AND RELATED EQUIPMENT

Qua		Manufacturer	Part or Spec Number
1100	REMOTE COMPASS SYSTEM (SPERRY C-10)		
2222	Flux Valve Remote Compass Indicator C-6L Direction Gyro	Sperry Sperry Sperry	620359 1777213-620 613260-2
2	Rack Assembly, consisting of: 1 Servo Amplifier 1 Slaving Amplifier 1 Rack	Sperry Sperry Sperry	618379 621107 614937 -10
1	AUTO PILOT Stabilizer Computer	Sperry	1776002-1
	Consisting of: 3 Servo Amplifier 1 Safety Monitor 1 Trim Coupler 1 Stabilizer Computer Rack	Sperry Sperry Sperry	619298-1 1775389 1775390 1776258
1		Sperry	1776003-3
	Consisting of: 1 Yaw Command Computer 1 Roll Command Computer 1 Pitch Command Computer 1 Radio Coupler 1 Pressure Computer 1 Interlock Rack	Sperry Sperry Sperry Sperry Sperry Sperry	620134 1775339 1775391 1775388 1775882-4 1775392-3
	Vertical Gyro Gain Calibrator Linear Accelerometer Linear Accelerometer Servo Drive Servo Bracket Rudder Actuator Yaw Damper Tester Auto Pilot Controller Auto Pilot Indicator Trim Servo Motor and Drive Trim Servo Sprocket and Bracket	Sperry	617926-1 1776710-03 615794-1 615794-2 615743-03 615144-01 1777968 1777967 1776001-1 1776004-1 6693588-11

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INSTRUMENTS AND RELATED EQUIPMENT

	Quar Rego		Mamufacturer	Part or Spec
		REMOTE COMPASS SYSTEM (SPERRY C-10)		
	NOTON	Flux Valve Remote Compass Indicator C-6L Direction Gyro Rack Assembly, consisting of:	Sperry Sperry Sperry	620359 1777213-620 613260-2
	-	l Servo Amplifier 1 Slaving Amplifier 1 Rack	Sperry Sperry Sperry	618379 621107 614937-10
		AUTO PIAOT		3 554 000 3
	1	Stabilizer Computer Consisting of:	Sperry	1776002-1
		3 Servo Amplifier 1 Automatic Cutoff 1 Trim Coupler 1 Stabilizer Computer Rack	Sperry Sperry Sperry Sperry	619298-1 1775389 1775390 1776258
	1	Flight Control Computer	Sperry	1776003-3
		Consisting of: 1 Yaw Command Computer 1 Roll Command Computer 1 Pitch Command Computer 1 Radio Coupler 1 Pressure Computer 1 Interlook Rack	Sperry Sperry Sperry Sperry Sperry Sperry	620134 1775339 1775391 1775388 1775882-4 1775392-3
The second secon	114222111111	Vertical Gyro Gain Calibrator Linear Accelerometer Linear Accelerometer Servo Drive Servo Bracket Rudder Actuator Yaw Damper Tester Auto Pilot Controller Auto Pilot Indicator Trim Servo Motor and Drive Trim Servo Sprocket and Bracket	Sperry	617926-1 1776710-03 615794-1 615794-2 615743-03 615144-01 1777968 1777967 1776001-1 1776004-1 669388-11 669352

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APPENDIK I-C INSTRUMENTS AND RELATED EQUIPMENT CONVAIR FURNISHED - CONVAIR INSTALLED Part or Spec Quan Manufacturer Number Description Reqd REMOTE COMPAGE SYSTEM Flux Valve J' Box Compass Amplifier Compass Indicator Sperry C-0 Compass Control AUTO PILOT Auto Pilot Amplifier Mount Vertical Gyro Control Auto-Approach Control Amplifier 11121 Adto-Approach Control Mount Pilot's Engaging Control Pilots' Release Switches Controller 1 Servo Control 1 Servo Motor and Drive Assembly (Aileron) 1 Servo Motor and Drive Assembly (Rudder)
Serve Motor and Drive Assembly 1 (Elevator) Servo Drum and Bracket Assemblies ĺ Servo Motor and Drive Assembly (Elevator Trim Tab) ervo Sprocket and Bracket Assembly 1 (Elevator Trim Tab)



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INSTRUMENTS AND RELATED EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan			Part or Spec.
Reqd	Description	Manufacturer	Number
-			C
1	Elevator Servo Drive \	Sperry	615743-03
1	Aileron Servo Drive	Sperry	615743-10
3	Servo Bracket	Sperry	615144-01
1	*Yaw Damper Tester	Sperry	1777967-1
1	Auto Pilot Controller	Sperry	1776001-1
1	Auto Pilot Indicator	Sperry	1776004-5 -
1	Trim Servo Motor and Drive	Sperry	1778879-21
1	Autopilot Trim Servo Bracket	Sperry	1780310
1	**Computer, Flight Director	Sperry	1780607-3 7
1	**Switch, Mode Selector	Sperry	1778905-2

*Effective Ships 1 through 13. **Effective Ships 14 and on.

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APPENDIX I-C INSTRUMENTS AND RELATED EQUIPMENT CONVAIR FURNISHED - CONVAIR INSTALLED

	Quan Reqd	Description	Manufacturer	Part or Spec. Number
I	A	TTITUDE INDICATOR SYSTEM		
	1 2	Vertical Gyro Indicator, Gyro Horizon	Sperry Sperry	617926-1 1776365-622
	2	Rack Assembly, consisting of: 3 Servo Amplifier 1 To-From Sensor 1 Rack	Sperry Sperry Sperry	618379 1778007 614937-51
	E	PLIGHT - INSTRUMENTS		
		Kollsman Integrated Instrument Systematics	em	* 1
	2	Altimeter Scale Error and Corrector Package	Kollsman	A32667-10-001
	#2	Indicator, Airspeed, Angle of Attack	Kollsman	A32707-10-023
	**2	Indicator, Airspeed, Angle of Attack	Kollsman	вз2707-10-023
	***5	Indicator, Airspeed, Angle of Attack	Kollaman	вз4627-10-023
1	1	Indicator, Master True Airspeed	Kollsman	A29277-10-001 or B29277-10-001
	2	Indicator, Mach No. Synchrotel Transmitter-Type	Kollsman	A29247-10-006
	1	Indicator, Master Static Air Temperature	Kollsman	A29257-10-001
		Control Chassis - includes: (1) Computer Unit (2) Scale Error Corrector Altimeter	Kollsman	A30720-00-004or B20720-00-004
	2 1 1 1	Valve, Static System Selector Bulb, Master Static Air Temperature Transmitter, Angle-of-Attack Master Warning Light	Republic Kollsman Kollsman Korry	1-2560-10 68-01000-0302 68-40800-0402 270-3-(HV6-2)
		*Applicable to Airplanes 1 through **Applicable to Airplanes 5 through ***Applicable to Airplanes 10 through	9	
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APPENDIX I-C

INSTRUMENTS AND RELATED EQUIPMENT

Quan		Manufacturer	Part or Spec.
Reqd	Description	Manut accorder	Hounet.
A	TTITUDE INDICATOR SYSTEM	/	
1 2 2	Vertical Gyro Indicator, Gyro Horizon Rack Assembly, consisting of	Sperry Sperry	617926-1 1776365-622
-	3 Servo Amplifier	Sperry	618379
	1 To-From Sensor	Sperry Sperry	1778007 614937+51
	1 Rack		
1	LIGHT - INSTRUMENTS		
	Kollsman Integrated Instrume	nt System	
`			
2	Altimeter Scale Error and Corrector Package	Kollsman	A32667-10-001
2	Indicator, Airspeed-Angle-		
	of-Attack	Kollsman	A32707-10-023
-1	Indicator, Master True	Kollsman	A29277-10-001 or B29277-10-001
2	Indicator, Mach No. Syn-		
-	chrotel Transmitter-Type	Kollsman	A29247-10-006
1	Indicator, Master Static Air Temperature	Kollsman	A29257-10-001
	Control Chassis - includes:	Kollsman	A30720-00-004 or
-	(1) Computer Unit		B30720-00-004
	(2) Scale Error Corrector		
2	Valve, Static System Se-		2000
	lector	Republic	1-2560-10
1	Bulb, Master Static Air Temperature	Kollsman	68-01000-0302
1	Transmitter, Angle-of-		68-40800-0402
	Attack	Kollsman Korry	270-3-(HV6-2)
1	Master Warning Light	KOTT'	-10 3 (200 -)

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INSTRUMENTS AND RELATED EQUIPMENT

Quan Reqd	Description	Manufacturer	Part or Spec. Number
A	TTITUDE INDICATOR SYSTEM		
1 2	Vertical Gyro Indicator, Gyro Horizon	Sperry Sperry	617926 - 1 1776365 - 622
2	Rack Assembly, consisting of: 3 Servo Amplifier 1 To-From Sensor	Sperry Sperry	618379 1778007
= .	1 Rack	Sperry	614937-51
Ī	LIGHT - INSTRUMENTS		
	Kollsman Integrated Instrument Sys	stem	
2	Altimeter Scale Error and Corrector Package	Kollsman	A32667-10-001
2	Indicator, Airspeed-Angle-of-	Kollsman	A32707-10-023
. 1	Indicator, Master True Airspeed Indicator, Mach No. Synchrotel	Kollsman	A29277-10-001
1	Transmitter-Type Indicator, Master Static Air	Kollsman	A29247-10-006
-	Temperature /	Kollsman	A29257-10-001
1	Control Chassis - includes: (1) Computer Unit (2) Scale Error Corrector	Kollsman	A30720-00-004 or B30720-00-004
2	Altimetér Valve, Static System Selector Bulb, Master Static Air Tem-	Republic	1-2560-10
-	perature Transmitter, Angle-of-Attack	Kollsman Kollsman	68-01000-0302 68-40800-0402
1	Master Warning Light	Korry	. 270-3 (HV6-2
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INSTRUMENTS AND RELATED EQUIPMENT

Quan Reqd	Description	Manufacturer	Part or Spec. Number
A	TTITUDE INDICATOR SYSTEM		
1 2	Vertical Gyro Indicator, Gyro Horizon	Sperry Sperry	617926-1 1776365-622
2	Rack Assembly, consisting of: 3 Servo Amplifier 1 To-From Sensor 1 Rack	Sperry Sperry Sperry	618379 1778007 614937-51
E	LIGHT - INSTRUMENTS	System	
	Kollsman Integrated Instrument	Dy s celli	
2	Altimeter Scale Error and Corrector Package	Kollsman	A32667-10-001
2	Indicator, Airspeed-Angle- of-Attack	Kollsman	A32707-10-023
2	Indicator, Master True Air- speed Indicator, Mach No. Syn-	Kollsman	A29277-10-001
1	chrotel Transmitter-Type Indicator, Master Static	Kollsman	A29247-10-006
1	Air Temperature Control Chassis - includes: (1) Computer Unit (2) Scale Error Corrector Altimeter	Kollsman Kollsman	A29257-10-001 A30720-00-004 or B30720-00-004
2	Valve, Static System Selector	Republic	5-1357-2
1 1 1	Bulb, Master Static Air Tem- perature Transmitter, Angle-of-Attack Master Warning Light	Kollsman Kollsman Korry	68-01000-0302 68-40800-0402 270-3 (HV6-2)

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APPENDIX I-C.,

INSTRUMENTS AND RELATED EQUIPMENT

Quan Reqd	Description	Manufacturer	Part or Spec.
	ATTITUDE INDICATOR SYSTEM		"
1422	Vertical Gyro Servo Amplifier Modules Indicator, Gyro Horizon Rack Assembly, Consisting of:	Sperry Sperry Sperry	617926-1 618379 1776365-622
	3 Servo Amplifier 1 To-From Sensor 1 Rack	Sperry Sperry Sperry	618379 1778007 614937 - 51
]]	FLIGHT - INSTRUMENTS		, , ,
	Kollsman Integrated Instrument Sys	tem	
2	Altimeter Scale Error and Cor-		
2	rector Package Indicator, Airspeed-Angle-or-	Kollsman	A32667-10-001
1	Attack	Kollsman	A32707-10-016
1 2	Indicator, Master True Airspeed Indicator, Mach No. Synchrotel	Kollsman	A29277-10-001
1	Transmitter-Type / Indicator, Master Static Air	Kollsman	A29247-10-004
1	Temperature	Kollsman	A29257-10-001
+	Control Chassis f Includes: (1) Computer Unit	Kolisman	A30720-00-001
	(2) Scale Error Corrector Altimeter (to be submitted separately as altimeter		(Does not include Scale Error Corrector Altimeter)
	and scale error corrector package)		
2	Valve, Static System Selector Bulb, Master Static Air Tempera-	Republic	5-1357-2
1.	ture Transmitter, Angle-of-Attack Master Warning Light	Kollsman Kollsman Korry	68-01000-0302 68-40800-0402 270-HV6-2
	1		

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INSTRUMENTS AND RELATED EQUIPMENT

_	ıan eqd		Manufacturer	Part or Spec. Number
		ATTITUDE INDICATOR SYSTEM		
	1422	Vertical Gyro Servo Amplifier Modules Indicator, Gyro Horizon Rack Assembly, Consisting of:	Sperry Sperry Sperry	617926-1 618379 1776365-622
		3 Servo Amplifier 1 To-From-Sensor 1 Rack	Sperry Sperry Sperry	618379 1778007 614937-51
		FLIGHT - INSTRUMENTS		
		Kollsman Integrated Instrument Systematics	<u>∍m</u>	
	2	Altimeter and Scale Error Cor- rector Set	Kollsman	A32667-10-001
	2	Indicator, Airspeed-Angle- of- Attack	Kollsman	A32707-10-016
	1 2	Indicator, Master True Airspeed Indicator, Mach No. Synchrotel	Kollsman	A29277-10-001
	1	Transmitter-Type Indicator, Master Static Air	Kollsman	A29247-10-004
	1	Temperature Control Chassis - Includes:	Kollsman Kollsman	A29257-10-001 A30720-00-001
	.4.	(1) Computer Unit (2) Scale Error Corrector Altimeter (to be submitted separately as altimeter and scale error corrector	ROLLISHER	(Does not include Scale Error Corrector Altimeter)
	2 1 1 1	package) Valve, Static System Selector Bulb, Master Static Air Temperature Transmitter, Angle-of-Attack Master Warning Light	Republic Kollsman Kollsman Korry	5-1357-2 68-01000-0302 68-40800-0402 270-HV6-2

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INSTRUMENTS AND RELATED EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec.
	ATTITUDE INDICATOR SYSTEM		
14-22	Indicator, Gyro Horizon	Sperry Sperry Sperry	617926-1 618379 1776365-622
-	3 Servo Amolifier 1 To-From-Sensor 1 Rack	Sperry Sperry Sperry	618379 1778007 614937-51
	FLIGHT - INSTRUMENTS		
	Kollsman Insegrated Instrument	System	
2	Altimeter and Scale Error		
	Corrector Set	Kollsman	A30417-10-001
5	Indicator, Airspeed-Angle of Attack	Kollsman	A29297-10 plus range markings
1	Indicator, Master True Airspeed	Kollsman	A29277-10-001
2	Indicator, Mach No. Synchrotel Transmitter-Type Indicator, Master Static Air	Kollsman ·	A29247-10-001
*	Temperature	Kollsman	A29257-10-001
1	Control Chassis - Includes: (1) Computer Unit (2) Scale Error Corrector Altimeter (to be submitted	Kollman	A30720-00-001 (Does not incl. Scale Error Corrector
	separately as altimeter & scale error corrector package)		Altimeter)
2 1 1 1	Valve, Static System Selector Bulb, Master Static Air Temp. Transmitter, Angle of Attack Master Warning Light	Republic Kollsman Kollsman Korry	5+1357-2 68-01000-0302 68-40800-0401 270-HV6-2

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INSTRUMENTS AND RELATED EQUIPMENT

The Person Name of Street, or other Persons name of Street, or oth	Qty Reqd	Description	Manufacturer	Part or Spec. Number
	A	TTITUDE INDICATOR SYSTEM		
	1 4 2	Vertical Gyro Servo Amplifier Modules Gyro Horizon Remote Indicator Rack Assembly, Consisting of:	Sperry Sperry Sperry HZ-4	617926-1 618379 1776365-622
A STATE OF THE PERSON NAMED IN COLUMN NAMED IN		3 Servo Amplifier 1 To-From-Sensor 1 Rack	Sperry Sperry Sperry	618379 1778007 614937-51
	F	LIGHT - INSTRUMENTS		
-		Kollsman Integrated Instrument	System	
	2	Altimeter Scale Error & Corrector		
	2	Package Indicator, Airspeed-Angle of Attack	Kollsman Kollsman	A30410-00-001 A29297-10 plus
-	2			range markings
-	2	Indicator, Master True Airspeed Indicator, Mach No. Synchrotel	Kollsman	A29277-10-001
	1	Transmitter Type	Kollsman	A29247-10-001
l		Indicator, Master Static Air Temperature	Kollsman	A29257-10-001
l	1	Control Chassis - Includes (1) Computer Unit		V to be supplied
		(2) Scale Error Connector - Altimeter	Kollsman P/	V to be supplied
1	2	Valve Static System Selector	Kollsman P/1	V to be supplied
	1	Bulb Master Static Air Temp. Transmitter, Angle of Attack	Kollsman	68-01000-0301
		TIMENTOUT , MIRTO OF WOORCK		

C O N V A I R
A DIVISION OF GENERAL DYNAMICS CORPORATION
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APPENDIX I - C

INSTRUMENTS AND RELATED EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quar		Manufacturer	Part or Spec Number
	ATTITUDE INDICATOR SYSTEM		
1 4 2	Vertical Gyro Servo Amplifier Modules Gyro Horizon Remote Indicator	Sperry Sperry HZ-4	617926-1 618379 1776365-622
	FLIGHT - INSTRUMENTS		
	Kollsman Integrated Instrumer	t System	
2	Altimeter Scale Error & Corrector		
	Package	Kollsman	A30410-00-001
2	Indicator, Airspeed-Angle of Attack	Kollsman	A29297-10 plus range marking
1 2	Indicator, Master True Airspeed	Kollsman	A29277-10-001
	Indicator, Mach No. Synchrotel Transmitter Type	Kollsman	A29247-10-001
1	Indicator, Master Static Air Temperature	Kollsman	A29257-10-001
1	Control Chassas - Includes	Kollsman P/N to	
	(1) Computer Unit (2) Scale Error Connector -	Kollsman P/N to	be supplied
2 1 1 1	Altimeter Valve, Static System Selector Switch, Computer Selector Warning Light	Kollsman P/N to Kollsman P/N to	
1	Bulb, Master Static Air Temp. Transmitter, Angle of Attack	Kollsman	68-01000-0301

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Read	Description	Manufacturer	Number
	FLIGHT - INSTRUMENTS		
	Kollsman Integrated Instr	rument System	
2	Altimeter	Kollsman /	to be supplied
2	Indicator, Airpoed-Angle of Attack	Kbllsman F/M	to be simplied
1	Indicator, True Airspeed	Kollsman //	to be supplied
2	Indicator, Mach No. Synchrotel Transmitter Type		to be supplied
1	Indicator, True Outside ir	Kollsman /1	to be supplied
1	Control Chassis - Includes (1) Computer Unit	Kollsman b/v	to be sumplied
	(2) Scale Error Connector -	Kollsman 7/N	to the suprlied
2	Valve, Static System Selector	Kollsman F/N	to be sumplied
1	Switch, Computer Selector	Kollaman /N	to be supplied
1	Warning Light	Convair	
T	Bulb, Temperature, Flush Type		

Transmitter, Migle of Attach

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APPENDIX I-C HYDRAULIC EQUIPMENT

	Quan Reqd	Description	Manufacturer	Part or Spec. Number
5/19c		Accumulator, 100 cu in.	Redco	8414-002
7/3A	2	Accumulator, 400 cu in.	Parker	1356-573354
7/19D	2 2 2 2	Gage, Accumulator Air, MLG	Rochester	6901-714
8/101		Gage, Accumulator Air, 100	Dochastan	6901-714
10/102		cu in. and 200 cu in.	Rochester U.S. Gauge	AW1826AD01
12/19E 17/19F	1	Gage, Emergency Air Brake	Rochester	6901-714
17/19F	1	Gage, Emergency Air Bottle Auxiliary Electric Pump	N.Y. Air Brake	165401008-2
19/261 22/190	2	Low Pressure Relief Valves	Parker Air-	
23/241		DOM 11000010 HOLLOS	craft	1112-578216
24/313	2	High Pressure Relief Valves	Pneu Draulics	1210-7
24/317	5 28	Valve, Relief, 1/4" Tube Size	Pneu Draulics	1015-5
25/19H	8	Valve, Hydraulic, Brake		5000
		Shuttle	Pneu Draulics	
	1	NLG Selector Valve	Bertea Peacock	39800-5003 51200-3
	1	NLG Selector Valve	Bertea	35000-301
	2	Valves, Spoiler, Inboard Valves, Spoiler, Outboard	Bertea	40600-301
	2 2 4	Main System Pumps, (Variable	201 000	
	7	Displacement-Type)	Vickers	AS-61695-L-2
	1	Hyd. Reservoir, System No. 1	Airite	6311-7
	ī	Hyd. Reservoir, System No. 2	Airite	6312-5
	2	Flap Actuating Motors	Vickers	MF-016B007A
	2	Hydraulic Fluid Level Trans.	Simmonds	391035-01406
	1 2 2 2	Hydraulic Fluid Level Trans.	Simmonds Aircraft	391035-02580
	4	Filters, Low Pressure	Porous	AC-1373-16
		Filters, High Pressure, 5 gpm	Purolator	60878
	2	Filters, High Pressure, 16 apa	Aircraft	AC-1574-12
	7	ritters, might from the gent	Porous	
	2	Ground Test Return Coupling	Aeroquip	307012-S11-1D
	2 2	Ground Test Press. Coupling	Aeroquip	305503-S11-12D
		Flap Selector Valve	Bertea	38400-303
	1	Nose Gear Steering Cylinder	Cleveland	9818-A
,		and Valve Assembly	Pneumatic Parker	1112-589225
	6	Check Valve (-4) 1500 psi	Parker	1112-589226
	1 1	Check Valve (-6) 1500 psi Check Valve (-10) 1500 psi	Parker	1112-589229
	11	Check Valve (-10) 3000 psi	Parker	1112-589234
	1	Check Valve (-12) 1500 psi	Parker	1112-589230
	ī	Check Valve (-12) 3000 psi	Parker	1112-589235
	ī	Check Valve (-16) 1500 psi	Parker	1112-589231
	1	Valve, Door Open, Emergency	Kidde	891507
	4	Filter, Pump Case Drain, 10 Micron,		
		6 gpm		

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19E 19F 261 190

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HYDRAULIC EQUIPMENT

Quan		-	Part or Spec.
Reqd	Description	Manufacturer	Number
2	Accumulator, 100 cu in.	Redco	8414-002
2	Accumulator, 400 cu in.	Parker	
2	Gage, Accumulator Air, MLG	Rochester	1356-573354
5 5	Gage, Accumulator Air, 100	rochester.	6901-714
_	cu in. and 200 cu in.	Rochester	6001 774
1	Gage, Emergency Air Brake	-	6901-714
l i	Gage, Emergency Air Bottle	U. S. Gauge Rochester	AW1826AD01
l ī	Auxiliary Electric Pump	N.Y. Air Brake	6901-714
وَ	Low Pressure Relief Valves		165W010 08-3
2	High Pressure Relief Valves	Parker Aircraft Pneu Draulics	1112-578216
2	Valve, Relief, 1/4" Tube Size		1210-7
112228	Valve, Hydraulic, Brake	Pneu Draulics	1015-5
	Shuttle	Pneu Draulics	F000
1	MLG Selector Valve	Bertea	5009
	NLG Selector Valve	Peacock	39800-5003
1 2 2 4	Valves, Spoiler, Inboard	Bertea	51200-3
2	Valves, Spoiler, Outboard	Bertea	35000-301 40600-301
4	Main System Pumps, (Variable	Y Der oek	40000-301
	Displacement-Type)	Vickers	
1	Hyd. Reservoir, System No. 1	Airite	6311-7
	Hyd. Reservoir, System No. 2	Airite	6312-5
2	Flap Actuating Motors	Vickers	MS-36-3907-25ZD
2	Hydraulic Fluid Level Trans.	Simmonds	391035-01406
2	Hydraulic Fluid Level Trans.	Simmonds	391035-02580
4	Filters, Low Pressure	Aircraft Porous	AC-1373-16
1222424221	Filters, High Pressure, 5 gpm	Purolator	60878
4	Filters, High Pressure, 16 gpm	Aircraft Porous	Ac-1574-12
2	Ground Test Return Coupling	Aeroquip	307012-S11-1D
2	Ground Test Press. Coupling	Aeroquip	305503-S11-12D
1	Flap Selector Valve	Bertea	38400-303
1	Nose Gear Steering Cylinder	Cleveland	3.3
	and Valve Assembly	Pneumatic	9818-A
6	Check Valve (-4) 1500 psi	Parker	1112-589225
1 .	Check Valve (-6) 1500 psi	Parker	1112-589226
1	Check Valve (-10) 1500 ps1	Parker	1112-589229
11	Check Valve (-10) 3000 psi	Parker	1112-589234
] 1	Check Valve (-10) 3000 psi Check Valve (-12) 1500 psi Check Valve (-12) 3000 psi	Parker	1112-589230
1	Check valve (-12) 3000 psi	Parker	1112-589235
1	Check Valve (-16) 1500 psi	Parker	1112-589231
1 4	Valve, Door Open, Emergency	Kidde	891507
4	Filter, Pump Case Drain,		
· .	10 Micron, 6 gpm		

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HYDRAULIC EQUIPMENT

	OUTVIER TORKIDIND - OUTVAIR INDIADIND			
Quan Reqd	Description	Manufacturer	Part or Spec. Number	
242211 261111111111111111111111111111111	Low Pressure Relief Valves High Pressure Relief Valves	Rochester N.Y. Air Brake Parker Aircraft Pneu Draulics Pneu Draulics Pneu Draulics Bertea Peacock Bertea Bertea Ham. Standard Airite	11332-001 8414-002 1356-573354 6901-714 6901-714 6901-714 165W010 08-3 1112-578216 1210-7 1015-5 5009 39800-5003 51200-3 35000-301 40600-301 532760 6311-7 6312-5 MS-36-3907-25ZD 391035-01406 391035-02580 AC-1373-16 60878 AC-1574-12 307012-S11-1D 305503-S11-12D 38400-303 9818-A 1112-589225 1112-589226 1112-589234 1112-589231 112-589231 112-589231	

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HYDRAULIC EQUIPMENT

	Quan Reqd	Description	Manufacturer	Part or Spec.
	nequ	Description	Manuracturer	Mampel.
CDI	4 2 2 2 2	Accumulator, Return Line Accumulator, 100 cu in. Accumulator, 400 cu in. Gage, Accumulator Air, MLG	Redco Redco Parker Rochester	11332-001 8414-002 1356-573354 6901-714
DINEFIG	1 1 2 2 2 2 8	Cage, Accumulator Air, 100 cu in. and 200 cu in. Gage, Emergency Air Brake Gage, Emergency Air Bottle Auxiliary Electric Pump Low Pressure Relief Valves High Pressure Relief Valves Valve, Relief, 1/4" Tube Size		6901-714 AW1826AD01 6901-714 165W010 08-3 1112-578216 1210-7
	1 2 2 4	Valve, Hydraulic, Brake Shuttle MLG Selector Valve NLG Selector Valve Valves, Spoiler, Inboard Valves, Spoiler, Outboard Main System Pumps, Var. Displ.) Hyd. Reservoir, System No.1 Hyd. Reservoir, System No.2	Pneu Draulics Bertea Peacock Bertea Bertea Ham. Standard Airite Airite	5009 39800-5003 51200-3 35000-301 40600-301 532760 6311-7 6312-5
	1222424221	Flap Actuating Motors Hydraulic Fluid Level Trans. Hydraulic Fluid Level Trans. Filters, Low Pressure Filters, High Pressure, 5 gpm Filters, High Pressure, 16 gpm Ground Test Return Coupling Ground Test Press. Coupling Flap Selector Valve	Vickers Simmonds Simmonds Aircraft Porous Purolator Arcraft Porous Aeroquip Aeroquip Bertea	MS-36-3907-25ZD 391035-01406 391035-02580 AC-1373-16 60878 AC-1574-12 307012-S11-1D 305503-S11-12D 38400-303
	26111111111111	Nose Gear Steering Cyl. and Valve Assembly Check Valve (-4) 1500 psi Check Valve (-6) 1500 psi Check Valve (-10) 1500 psi Check Valve (-10) 3000 psi Check Valve (-12) 1500 psi Check Valve (-12) 3000 psi Check Valve (-16) 1500 psi Valve, Door Open, Emergency	Cleveland Pneumatic Parker Parker Parker Parker Parker Parker Parker Kidde	9818-A 1112-589225 1112-589226 1112-589229 1112-589234 1112-589230 1112-589235 1112-589231 891507

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HYDRAULIC EQUIPMENT

			/	
	Quan			Part or Spec.
		Description /	Manufacturer	Number
90	4	Accumulator, Return Line	Redco	11332
A	2	Accumulator, 100 cu. in.	Redco	8404-001 Type A
3D	2	Accumulator, 400 cu. in.	Parker	1356-573354
01	2	Gage, Accumulator Air, MLG	Rochester	6901-714
2	2	Gage, Accumulator Air, 100/cu.		_
9E		in. and 200 cu. in.	Rochester	6901-714
9 F	2	Gage, Emergency Air Bottle	Rochester	6901-714
51	1	Auxiliary Electric Pump	NY Air Brake	MS 2001
		X		165W0101008-3
	2	Low Pressure Relief Valves	Parker Aircraft	1112-578216
	2	High Pressure Relief Walves	Pneu Draulics	1202-5
	2	Valve, Relief, 1/4" Tube Size	Pneu Draulics	1015-5
		Valve, Hydraulic, Brake Shuttle	Pneu Draulics	5013
	1	MLG Selector Valve/	Bertea	39800-5003
	1	NLG Selector Valve	Peacock	51200-3
	2	Valves, Spoiler, Inboard	Bertea	35000-301
	2	Valves, Spoiler Outboard	Bertea	40600-301
	4	Main System Pumps, (Var. Displ.)	Ham .Standard	532760
		Hyd. Reservoir, Primary	Airite	6311-3
	1	Hyd. Reservoir, Secondary	Ailite	6312-3
	2	Flap Actuating Motors	Vickers	MS-36-3907-25ZD
	2	Hydraulic Flaid Level Trans.	Simmonds	391035-01406
	1.			391035-02580
	4	Filters, Low Pressure	Aircraft Porous	AC-1373-16
	2	Filters, High Pressure, 5 gpm	Purolator Aircraft Porous	60878
	4	Filters, High Pressure, 16 gpm	Aircraft Porous	AC-1574-12
	2	Ground Test Return Coupling	Aeroquip	307012-S11-1D
	2	Ground Test Press. Coupling	Aeroquip	305593-S11-12D
	1	Flap Selector Valve	Bertea	38400-301
	1	Nose Gear Steering Cyl. and Valve Assembly	Cleveland \ Pneumatic	9818
	1	Check Valve (-4) 1500 psi	Parker	1112-589225
	lî	Check Valve (-4) 3000 psi	Parker	1112-589233
	i	Check/Valve (-6) 1500 psi	Parker	1112-589226
	ī	Check/ Valve (-10) 1500 psi	Parker.	1112-589229
	i	Check Valve (-10) 3000 psi	Parker	1112-589234
	i	Check Valve (-12) 1500 psi	Parker	1112-589230
	i	Check Valve (-12) 3000 psi	Parker	1112-589235
	li	Check Valve (-16) 1500 psi	Parker	1112-589231
	1	Valve, Door Open, Emergency	Kidde	891507
	1.	1-10) poor obour puer Reito's	TTAKE	OSTOCI
	1	1		

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HYDRAULIC EQUIPMENT

Quan Reqd	Description	Manufacturer	Part or Spec. Number
42222		Redco Redco Parker Rochester	11332 8404-001 Type A 1356-573354 6901-714
2	in. and 200 cu. in. Gage, Emergency Air Bottle Auxiliary Electric Pump	Rochester Rochester NY Air Brake	6901-714 6901-714 MS 2001
2228112241122	Low Pressure Relief Valves High Pressure Relief Valves Valve, Relief, 1/4" Tube Size Valve, Hydraulic, Brake Shuttle MLG Selector Valve NLG Selector Valve Valves, Spoiler, Inboard Valves, Spoiler, Outboard Main System Pumps, (Var. Displ.) Hyd. Reservoir, Primary Hyd. Reservoir, Secondary Flap Actuating Motors Hydraulic Fluid Level Trans.	Parker Aircraft Pneu Draulics Pneu Draulics Pneu Draulics Pertea Peacock Bertea Bertea Ham. Standard Airite Airite Vickers Simmonds	165W01008-3 1112-578216 1202-5 1015-5 5013 39800-5001 51200 35000-301 40600-301 532760 6311-3 6312-3 MS-36-3907-25ZD 391035-01406 391035-02580
4 2 4 2 1 1 1 1 1 1	Filters, Low Pressure Filters, High Pressure, 5 gpm Filters, High Pressure, 16 gpm Ground Test Return Coupling Ground Test Press. Coupling Flap Selector Valve Nose Gear Steering Cyl. and Valve Assembly Check Valve (-4) 1500 psi Check Valve (-4) 3000 psi Check Valve (-10) 1500 psi Check Valve (-10) 3000 psi Check Valve (-10) 3000 psi Check Valve (-12) 1500 psi Check Valve (-12) 1500 psi Check Valve (-12) 3000 psi	Aircraft Porous Purolator Aircraft Porous Aeroquip Aeroquip Bertea Cleveland Pneumatic Parker	AC-1373-16 60878

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HYDRAULIC EQUIPMENT

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Qty Reqd	Description	Manufacturer	Part or Spec.
		Dedee	11332
4	Accumulator, Return Line	Redco	8404-001 Type A
2	Accumulator (100-cu. in.)	Redco	1356-553604
1	Accumulator (100-cu. in.) Accumulator, NLG, 200 cu. in. Accumulator, 400 cu. in.	Parker	1356-573354
2	Accumulator, 400 cu. in.	Parker Rochester	6901-713
2000	Gage, Accumulator Air, MLG	Rochester	0901-112
2	Gage, Accumulator Air - (100) 3 1	Rochester	6901-715
	and (200) 3 in.	Rochester	6901-714
1	Gage, Emergency Air Bottle	NY Air Brake MS2001	
1	Auxiliary Electric Purp	Parker Aircft.	1112-578216
2	Low Pressure Relief Valves	Pneudraulics	1202-5
2	High Pressure Relief Valves	Pneudraulics	1015-5
1 2	Valve, Relief, 1/4" Tube Rize Valve, Hydraulic, Brake Shuttle	Pneudraulics	5013
22231	valve, hydraulic, hrake Shuccie	Bertea	39800-5001
	MIG Selector Valve	Peacock	51200
1 2 2 4	NLG Selector Valve	Bertea	35000-301
2	Valves, Spoiler, Inbeard	Bertea	35000-303
2	Valves, Spoiler, Outboard	Ham Std	521415
	Main System Pump (War Displ)	Ainite	6311
1	Reservoir, Primary	Airite	6312
7	Reservoir, Secondary	Vickers	MS-36-3907-25ZI
2	Flap Actuating Motors	Simmonds	381072-37580
2	Hydraulic Fluid Eevel Trans.	Aircr. Poross	AC-1373-16
0	Filters, Low Pressure	Purolator	60878
1 2 2 4 2 2 4	Filters, High Pressure, 5 gpm	Airer. Porous	AC-1574-12
1 7	Filters, High Pressure, 16 gpm Ground Test Coup. Half (Suct)	RIPCP. POPOUS	MC-TO (4-12
S 5 S	Ground Test Return Coupling	Aeroquip	307012-\$11-1D
6	Ground Test Press. Coupling	Aeroquip	305503-811-120
2	Ground Test Coupl. Cap (Suct)	Merodarp	305903-811-125
0	Ground Test Coupl. Cap (Press)		3
5	Flap Selector Valve	Bertea	38400
ī		bet.cea.	30400
1	Nose Landing Gear Steering Cyl. and Valve/Assembly	Cleveland	9818
AR	Check Valve	ATGACTOTIC	3010
An.	Spoiler Actuating Cyl. Inboard	Peacock	51165
8	Spoiler Actuating Cyl. Outboard	Peacock	51170
1	Stabilizer Actuating Motor	Vickers	MS-36-3909-25ZE
1 4	Firewall Shutoff Valve	Rob-Fulton	1326-10001
**	TITI-CAGTI DIMPOTI AGTAC	MOD-L OT COIL	1250-10001
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HYDRAULIC EQUIPMENT

	Quan Reqd	Description	Manufacturer	Part or Spec. Number
	4 8 1	Spoiler Actuating Cyl.Inboard Spoiler Actuating Cyl.Outboard Stabilizer Actuating Motor	Peacock Peacock Vickers	51165-5 51170-7 MS-36-3909-25ZE- S-484-2
İ	4	Firewall Shutoff Valve Hydraulic Fluid Quantity	Robert Fulton	1328-10001-1
l	2	Indicator (Dual) Temperature Control Valve	Simmonds Acces. Schroeder	393028-10645 C-166-01
l	5 5	Hyd. Booster Pump and Motor Main Landing Gear Actuating	Vickers	AS-15506-C
Ì	1	Cyl. Nose Landing Gear Actuating	Peacock	51160-5
	3342	Cyl. MLG Priority Valve-Up Pressure Transmitter Pressure Switch Pressure Switch, Return Line	Peacock Carl Drescher Co. U. S. Gauge Hydra Electric Hydraulic	51195-3 52015-1 ST-107-J 90018-1
	1 4 4	Anti-Skid Control Valve Anti-Skid Control Valve(Dual) Main Landing Gear Door Cyl.	Research Hydro-Aire Hydro-Aire	93000 38-103A 38-099A
١	1	(Aft) MLG Priority Valve Accumula-	Thompson	к-51894
	2 1 1	MLG Brake Metering Valves NLG Brake Metering Valve Reservoir Remote Fill Line	Vinson Weston Hyd. Weston Hyd.	A70166-4 16640-2 16650-1
	2	Filter Temperature Transmitter	Purolator	62289
	1 2 /	NLG Uplatch Cylinder MLG Uplatch Cylinder	Lewis Ronson Cleveland	56B17J 2-U-2024
4	2		Pneumatic	9729-300B
		Down Lock Release Cylinders	Cleveland Pneumatic	9729-100A L/R
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HYDRAULIC EQUIPMENT

Quan Reqd.	Description	Manufacturer	Part or Spec.
4 8 1 4	Spoiler Actuating Cyl. Inboard	Peacock Peacock	51165
1	Spoiler Actuating Cyl. Outboard Stabilizer Actuating Motor	Vickers	51170 MS-36-3909-25ZE
4	Firewall Shutoff Valve	Robert Fulton	1328-10001
1	Hydraulic Fluid Quantity Indi-		
	cator (Dual)	Simmonds Acces.	393028-10645
1	Temperature Control Valve Hyd. Booster Pump and Motor	Schroeder Vickers	C-166-01 AS-15506-C
2	Main Landing Gear Actuating Cyl.		51160
2 1 1	Nose Landing Gear Actuating Cyl.		51195
	MLG Priority Valve-Up	Carl Drescher Co.	
AR	Pressure Transmitter	U.S. Gauge	ST-107-J
4	Pressure Switch Potum Line	Hydra Electric Hydraulic	90018-1
7	Pressure Switch, Return Line	Research	93000
1	Anti-Skid Control Valve	Hydro-Aire	38-103
1 4 4	Anti-Skid Control Valve (Dual)	Hydro-Aire	38-099
	Main Landing Gear Door Cyl. (Aft)		K-51957
1	MLG Priority Valve Accumulator	Vinson	A70166 16640
2	MLG Brake Metering Valves NLG Brake Metering Valve	Weston Hyd. Weston Hyd.	16650
i	Reservoir Remote Fill Line	wescon nyu.	10000
	Filter	Purolator	62289
2	Temperature Transmitter	Lewis	56B17J
1	NLG Uplatch Cylinder	Ronson	SDS054
2	MLG Uplatch Cylinder	Cleveland Pneumatic	0720-3004
2	Down Lock Release Cylinders	Cleveland Pneumatic	9729-300A 9729-100

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MODEL 22

DATE 9-20-56

Rev. 1-20-59

APPENDIX I-C

HYDRAULIC EQUIPMENT

Qty Reqd	Description	Manufacturer	Part or Spec.
6	Constant Control Value		
	Spoiler Control Valve Hydraulic Fluid Qty Indicator (Dal)	Simmonds Acc.	393028-10646
1 1	Temperature Control Valve	Schroeder	C-166-01
2	Temperature Bulb		
2	Hydraulic Fluid Qty Transmitter		
20224	Reservoir Drain Valve Roost Pump and Motor	Vickers	AA-15500-C
1	Pressure Reducer	VIOLETE	AA-1JJOU-U
	Main Landing Gear Actuating Cyl.	Peacock	51100
1	Nose Landing Geer Actuating Cyl.	Beacock	51195
2 1 3 1	Landing Gear Unlatching Cyl.	Carl Drescher Co.	E001E
AR	MLG Priority Valve Up Pressure Transmitter	U.S. Gauge	52015 ST-107-J
4	Pressure Switch	o to to do do	01 10 10
1	Anti-Skid Control Value	Hydro-Aire	38-103
24.	Anti-Skid Control Valva (Dual)	Hydro-Aire	38-099
14	Main Landing Gear Door Oyl. (aft)		K-51957
1 2	Priority Valve MLG Accumulator MLG Brake Metering Valves	Vinson Waston Hyd.	A70166 16640
2	NLG Brake Metering Valve	Weston Hyd.	16650
1	Reservoir Remote Fill Line Fister	Purolator	62289
2	Temperature Transmitter	Lewis	56B174
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CONVAIR

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Hev. 10-15-58

APPENDIX I-C CONVAIR FURNISHED - CONVAIR INSTALLED

		VVIIVE TO THE TOTAL CONTRACT OF THE TOTAL CO		
1	04			Part or Spec
1	Qty Reqd	Description	Mamufacturer	
4				THE RESERVE AND ADDRESS OF THE PERSON.
ł	4	Accumulator, Return Line	Redco	11332
ł	2.	Accumulator (100 cu. in.)	Redco	
ı	1	Accumulator, NLO, 200 cu. in.	Parker	1356-553604
1	1234	Accumulator, 400 ou. in.	Parker	1356-573354
	3	Dege, Accumulator Air	Man Shandand	coalias
		Main System Pump (variable displacement)	Ham.Standard	251412
1	1 1 1	Rledtric-Driven Pump	A A mad date	6222
ł	1	Reservoir, Primary	Airite	6311
ł	1	Reservoir, Secondary	Airite	6312
1	24 24	Flap Actuating Motor		10 1000 16
	4	Filters Low Pressure	Airor Porous	40-13(3-10
	2	Filters High Pressure 5. OF	Purolator	-000/0
	4	Filters High Pressure 16.0FM	Airor, Porous	AC-15/4-12
	5 2	Ground Test Coupl. Half (Suction)		
	2	Ground Test Count. Half (Pressure)		
	2	Ground Test Coupl. Cap (Suction)		
	2	Ground Test Coupl Cap (Pressure)		
	2.	Flap Selector Valve		
	1	Nose Landing Gear Steering Cyl. and Valve	Cleveland	9818
		Assembly	OTSASTURG	9010
	AR	Metering Check Valve		
	AR	Check Valve	Peacock	51165
	4	Spoiler Actuating Cyl. Inhoard	Peacock	51170
	8	Spoiler Actuating Cyl. Outboard	readoux	3/2/210
	1	Stabilizer Actuating Motor	Dole	80037
	48124611222	Main Relief Valve	1016	00001
	4	Firewall Shutoff Valve		
	0	Spoiler Control Valve		
	1	Hydraulio Fluid Qty Indicator (Dull) Temperature Control Valve	Dole	80034
	1		2020	0003.
	5	Temperature Bulb Hydraulic Fluid Qty Transmitter		
	2	Reservoir Drain Valve		
	5	Boost Pump and Motor	Vickers	AA-15506-C
	4	Pressure Reducer		
	2	Main Landing Gear Actuating Cyl.	Peacook	51160
	1	Nose Landing Gear Actuating Cyl.	Pageock	51195
	2	Landing Gear Unlatching Cyl.		
	1381RR4144	Brake Shuttle Valve	1	
	i	Priority Valve		
	AŘ	Priority Valve Selector Yalve		
	AR	Pressure Transmitter		
	4	Pressure Switch Anti-Skid Control Valve	Hydro-Aire	38-103
	t	Anti-Skid Control Valve (Dual)	Hvdro-Aire	38-099
	4	Main Landing Gear Door CVL.	Thompson	K-51894
		American Marian		
	4			

CONVAIR

A DIVISION OF GENERAL DYNAMICS CORPORATION
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APPENDIX I-C HYDRAULIC FOURPHENT

ı	CONVAIR FURNISHED - CONVAIR DISTALLED								
	Qty			Part or Spac.					
	Radd	Description	Hamfacturer	Augher					
ı	4/	Accumulator, Return Line Accumulator (100 cu. in.)	Redco	11332					
I	2/	Accumulator (100 cu. in.)	Redco	8404-001 Type A					
1	1	Acquantator, NLG, 200 cu. in.	Parker	1356-553604					
1	1 2 4	Accumilator, 400 eu. in.	Parker	1356-573354					
1		Accumulator, NLG, 200 cu. in. Accumulator, 400 cu. in. Gage, Accumulator Air Main System Pump (variable dis-							
1	4	Main System Pump (Variable dis-	Ham. Standard	521415					
1	. 3	placement)	nam. Domizard	Aller Shirt die A					
1	<u></u>	Property Drivery	Airite	6311					
1	1	Reservoir Secondary	Airite	6312					
ı	څ	Electric Driven Pump Reservoir Primary Reservoir Secondary Flap Actuating Motor							
	4	Filters Low Fressure	Airer. Percus .	AQ-1373-16					
1	2	Filters High Plessure 5. GPM	Purolater	-60678					
١	4	Piltone Wich Practive 150 CVI	Airer. Perous	AC-1574-12					
ı	2	Ground Test Couply Half (Suction)	Control of the Contro						
ı	2	Ground Test Coupl Half (Pressure)							
ı	2	Ground Test Coupl. Half (Suction) Ground Test Coupl. Half (Pressure) Ground Test Coupl. Cap (Suction) Ground Test Coupl. Cap (Pressure)	The state of the s						
	2	ground rest coupl, or (Fressure)							
I	111242422222	Flap Selector Valve Nose Landing Gear Steeling Cyl.							
ı	2.	and Valve Assembly	Cleveland	9818					
ı	AR	Metering Check Valve							
ı	AR	Check Valve		19					
I	4	Spoiler Actuating Cyl. Inboard	Peaceck	51165					
ı	81246112	Spoiler Actuating Cyl. Outboard Stabilizer Actuating Motor	Peacock	51170					
i	1	Stabilizer Astuating Motor		Pacad					
ł	2	Main Relief Valve	Dole	80037					
ŀ	4	Firewell Soutoff Valve							
ı	7	Spoiler Control Valve Hydraulig Fluid Sty Indicator (Dual Temperature Control Valve							
ı	7	Temperature Control Valve	Dole	80034					
ı	2	Temperature Bulb							
I	2	Hydraulic Fluid Cty Transmitter		Lance III					
	2	Hosenvoir Drain Valve		at a distant a					
1	May and so in	Boost Pump and Motor	Vickers	AA-15506-6					
	4	Pressure Reducer	Research	51160					
1	2	Main Landing Gear Actuating Cyl.	Peacock	51195					
	2	Note Landing Gear Actuating Cyl. Landing Gear Unlatching Cyl.	. 000000	James y					
	32	Erake Shuttle Valve		· · · · · ·					
	1	Priority Valve	12 18 18 2						
	AR	Selector Valve							
	AR	Pressure Transmitter	The state of the state of						
	4	Pressure Switch	The day of Advan	38-103					
	1442	Anti-Skid Control Valve	Hydro-Aire Hydro-Aire	28-000					
	1-	Anti-Skid Control Valve (Dual) Main Landing Gear Door Cyl.	Thompson	38-099 K-51894					
	2	Yaw Damper Cylinder							
-	1	Yaw Damper Control Valve							
1	-	Man Sankale Adversary and American							

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APPENDIX I-C

	IPVD. AULIC EQUIPMENT								
		CONVAIR FURNISHED - CO	NVAL INSTALL D	/					
	Qty	Description	Manufacturer	Part or Spec.					
9C	42124	Accumulator, Meturn Line Accumulator (100 cu. in.) Accumulator, MLG, 200 cu. in. Accumulator, 400 cu. in.	Hedco Hedco Parker Parker	11332 8404-001 Fyne A 1356-553604 1356-573354					
	#	Cage, Accumulator Air Nuin System Pump (variable dis- glacement)	Ham. Standard	521415					
	1	Electric-Driven Pump Heservoir, Primary	Airit	6311					
	11124	Heservoir, Secondary Flap Actuating Motor Filters Low Pressure	Airer. Porous	6312					
4	24	Filters Nigh Pressure 5.GPM Filters High Pressure 16.GPM	Parolator	AC-1373-16 -60878 AC-1574-12					
1.44	222221	Ground Test Coupl. Half (Suction) Ground Test Coupl. Half (Pressure) Ground Test Coupl. Cap (Suction Ground Test Coupl. Cap (Pressure) Flap Selector Valve Nose Landing Gear Steering C.1.							
	A.P.	and Valve Assembly Metering Check Valve Check Valve	Cleveland	9818					
	8	Spoiler Actuating Cyl. Taboard Spoiler Actuating Cyl. Authorrd Stabilizer Actuating Motor	Peacock Peacock	51165 51170					
62	4812461	Main Helief Valve Firewall Shutoff Valve Spoiler Control Valve Hydraulic Fluid Qty Indicator	Dole	80037					
	2	Temperature Control Valve Temperature Bulb Hydraulic Fluid ety Transmitter Reservoir Drain Valve	Pole	80034					
	24	Boost Pump and Motor Pressure Reducer	Vicker	AA-15506-C					
	TAR 4 R T T T T T T T T T T T T T T T T T	Main Landing Gear Actuating Cyl. Nose Landing Gear Actuating Cyl. Landing Gear Unlatching Cyl. Brake Shuttle Valve	Peacock Peacock	51160 51195					
\$	AR	Priority Valve Selector Valve Pressure Transmitter Pressure Switch		No.					
	14 2	Anti-Skid Control Valve (Dual) Anti-Skid Control Valve (Dual) Main Landing Gear Door Cyl. Yaw Damper Cylinder	Hydro-Aire Hydro-Aire Thompson	38-103 38-099 K-51894					
-	1	Yaw Damper Control Valve							

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APPENDIX I - C

HYDRAULIC EQUIPMENT

	Quan Reqd	Description	Manufacturer	Part or Ipec
С	264	Accumulator (100 cu. in.) Accumulators, Piston Type Gage, Accumulator Air	Redco Tool	8404-001 Type A
	1+	Main System Pumps (variable displace- ment type) Electric-Driven Pump	HamStandard	521415
-	2 4 2	Main Reservoirs Flap Actuating Motor Filters Low Pressure Filters High Pressure 5.GPM	Alreraft Porous Purolator Prod.	-60878
	4222	Ground Test Coupling Halves (Suction) Ground Test Coupling Halves (Pressure Ground Test Coupling Caps (Suction)	Aircraft Porous	AC-1574-12
	1	Ground Test Coupling Caps (Pressure) Flap Selector Valve Nose Landing Gear Steering Valve		•
	AR AR 4	Metering Check Valves Check Valves Spoiler Actuating Cylinders Inboard Spoiler Actuating Cylinders Outboard.	Peacock Eng. Peacock Eng.	51165 51170
	4812461124	Stabilizer Actuating Motor Main Relief Valves Firewall Shutoff Valves Spoiler Control Valves	Dole Valve	80037
	1 1 2	Hydraulic Fluid Quantity Indicator Temperature Control Valve Temperature Bulb		
	4 2 2 4	Hydraulic Fluid Quantity Transmitter Reservoir Drain Valves Boost Pumps Pressure Reducers	1	
	37738	Main Landing Gear Actuating Cylinder Nose Landing Gear Actuating Cylinder Landing Gear Uplatching Cylinders	S	
	AR AR	Brake Shuttle Valves Priority Valve Selector Valves Pressure Transmitters	1	
	1 1 4 4	Pressure Switches Anti-Skid Control Valve Anti-Skid Control Valves (Dual) Main Landing Gear Door Cylinders	Hydro-Aire Hydro-Aire	38-103 38-099
	2	Yaw Damper Cylinders Yaw Damper Control Valve		

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HYDRAULIC E UIPMENT

		CONVAIR FURNISHED - CON	4411 11111	
euan Reqd		Description	Madufacturer	Part or Spec Number
8 4	/	Gage, Accumulator Air Main System Pumps (variable	1.	-
		displacement type) Electric-Oriven Pump		
1 2 2		Main Reservoirs		
AR	•	Flap Actuating Motor System Filters		
2		Ground Test Coupling Halves (suction)		
2		Ground Test Coupling Halves (pressure)		
2		Ground Test Coupling Caps (suction)		
2		Ground Test Coupling Caps (pressure)		
2		Flap Selector Valve Nose Landing Gear Steering Valve		
AR AR		Metering Check Valves Check Valves		
12		Spoiler Actuating Cylinders Stabilder Actuating Motor		
1 2 4 6 1 1 2 4 2 2 4 2		Main Relief Valves Firewall Shutoff Valves		
6		Spodler Control Valves Hydraulic Fluid Quantity Indicat	ho	
1		Temperature Control Valve Temperature Bulb		
4		Mydraulic Fluid Quantity Transmi	tter	
2	1	Reservoir Drain Valves Boost Pumps		
2	1	Pressure Reducers Main Landing Gear Actuating Cyli	inders	
3	1	Nose Landing Gear Actuating Cylinder Landing Gear Unlatching Cylinder	nder	
1	1	Brake Shuttle Valves Priority Valve		
AR		Selector Valves Pressure Transmitters		1
4 9		Pressure Switches Anti-Skid Control Valves		1
4 9 4 2		Main Landing Gear Door Cylinders Yaw Damper Cylinders	\$	
1		Yaw Damper Control Valve		

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APPENDIX I-C

LANDING GEAR EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
2	Main Oleo Shock Strut	Cleveland Pneu	
8	Main Landing Gear Wheels and Brakes	Goodyear	9729C-L/R 9541333 or 9541333F,
*8 **8 1 2	Main Wheel Tires (39 x 13) Tires, Main Wheel (39 x 13) Nose Oleo Shock Strut Nose Landing Gear Wheels and Brakes	U. S. Rubber Goodyear Cleveland Pneu Goodyear	20 PR, Type VII
*2 **2	Nose Wheel Tires (29 x 7.7) Tires, Nose Wheel (29 x 7.7)	U.S. Rubber Goodyear	12 PR, Type VII 12 PR, Type VII
!	LANDING GEAR WHEEL, BRAKE, AND TI	RE DESIGN WEIGHT:	
	MAIN GEAR		
	8 Wheels at 66.45 lb ea 8 Brakes at 120.3 lb ea 8 Tires at *84.1 lb ea (tul **89.5	962.4	1b 1b **716.0
1	NOSE GEAD		
	2 Wheels at 35.7 lb ea 2 Brakes at 84.0 lb ea 2 Tires at 33.8 lb ea (tube)	168.0	1b 1b
	The above weights are those allott noted. Any change requested by the weights will affect the simple of	ne Buyer that alt	fic items ers these

weights will affect the airplane empty weight guarantee and be subject to negotiation.

FORM 18129

/18B /19B /19D /108 /19F /19G /19H 0.28

^{*}Effective Ships 1 through 13. **Effective Ships 14 and on.

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APPENDIX I-C

LANDING GEAR EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

1		1	
Quan Reqd	Description	Manufacturer	Part or Spec. Number
2	Main Oleo Shock Strut	Cleveland Pneu	9729A-L/R or
8	Main Landing Gear Wheels and Brakes	Goodyear	9729C-L/R 9541333 or 9541333F,
*8 **8	Main Wheel Tires (39 x 13) Tires, Main Wheel (39 x 13)	U. S. Rubber Goodyear	9560478 20 P.R., Type VII 20 P.R., Type VII
2	Nose Oleo Shock Strut Nose Landing Gear Wheels and Brakes	Cleveland Pneu Goodyear	9772A 9541334 or 9541334F,
##2	Nose Wheel Tires (29 x 7.7) Tires, Nose Wheel (29 x 7.7)	V. S. Rubber Goodyear	9560479 12 P.R., Type VII 12 P.R., Type VII
	LANDING GEAR WHEEL, BRAKE, AND	TIRE DESIGN WEIGH	HT's
	MAIN GEAR	. \	
	8 Wheels at 66.45 lb ea.		531.6 1ь
}	8 Brakes at 120.3 lb ea.		962.4 1ъ
	8 Tires at *84.1 lb ea (T	ubeless)	*672.8 1b **716.0
		*2	,166,8 1ъ

The above weights are those allotted for the specific items noted. Any change requested by the Buyer that alters these weights will affect the airplane empty weight guarantee and be subject to negotiation.

*Effective Ships 1 through 13.

**Effective Ships 14 and on.

NOSE GEAR

5/18B 5/19B 7/19D

22/19G 25/19H SAN DIEGO 12. CALIFORNIA

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APPENDIX I-C

LANDING GEAR EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Part or Spec.
negu	DESCRIPCION	A A A A A A A A A A A A A A A A A A A
2	Main Oleo Shock Strut	Cleveland Pneu 9729A-L/R or 9729C-L/R
8	Main Landing Gear Wheels and Brakes	9541333 or Goodyear 95413337, 9560478
8	Main Wheel Tires (39 x 13)	U.S. Rubber 20 P.R., Type VII
1	Nose Oleo Shock Strut	Cleveland Pneu 9772A
2	Nose Landing Gear Wheels and Brakes	9541334 or 9541334 or 9560479
2	Nose Wheel Tires (29 x 7/7)	U.S. Rubber 12 P.R., Type VII
	LANDING GRAR WHEEL, BEAKE, AND TIRE	DESIGN WEIGHT:
	MAIN GEAR	*
	8 Wheels at 68.45 lb ea	531.6 lb
	8 Brakes at 120.3 lb ea	962.4 lb
	8 Tires at 84.1 lb ea (Tubele	ess) 672.8 lb
	7	2,106.8 16
	NOSE GEAR	
	2 Wheels at 35.7 lb ea	71.4 16
	2 Brakes at 84.0 lb ea	168.0 1ь
	2 Tires at 33.8 lb ea. (Tubeles	ss) 67.6 lb
		307.0 lb
	The above weights are those alle	otted for the specific items

The above weights are those allotted for the specific items noted. Any change requested by the Buyer that alters these weights will affect the airplane empty weight guarantee and be subject to regotiation.

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CONVAIR A DIVISION OF GENERAL DYNAMICS CORPORATION

SAN DIEGO

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APPENDIX I-C

LANDING GEAR EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Number
2	Main Oleo Shock Strut	Cleveland Pneum.	9729A L/R
8	Main Landing Gear Wheels and Brakes	Goodyear	9541333F, 9560478
8	Main Wheel Tires (39 x 13) Nose Oleo Shock Strut	U. S. Rubber Cleveland Pneum.	20 P.R., Type VII 9772A
2	Nose Landing Gear Wheels and Brakes	Goodyear	9541334F, 956 0479
2	Nose Wheel Tires (29 x 7.7)	U. S. Rubber	12 P.R., Type VII

LANDING GEAR WHEEL, BRAKE, AND TIRE DESIGN WEIGHT:

MAIN GEAR

8	Wheels	at	66.45	1b	ea		 531.6	Tp
8	Brakes	at	120.3	1b	ea		 962.4	lb
8	Tires	at	84.1	1b/	ea	(Tubeless)	 672.8	lb
				/			2,166.8	lb
NOSE	GEAR		/	/				

2	Wheels	at	35.7	1b	ea		71.4	1b
			1				168.0	1b
			/			(Tubeless)	67.6	1b
	11105	/	55.0		0.00	(14001000)	307.0	

The above weights are those allotted for the specific items noted. Any change requested by the Buyer that alters these weights will affect the airplane empty weight guarantee and be subject to negotiation.

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108 /19F

CONVAIR

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APPENDIX I-C

LANDING GEAR EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
.2	Main Oleo Shock Strut Main Landing Gear Wheels	Cleverand Pneum.	9729A
8 1 2	and Brakes Main Wheel Tires (39 x 13) Nose Oleo Shock Strut Nose Landing Gear Wheels	Goodyear U.S. Rubber Gleveland Pneum.	9541333, 9560393 20 P.R., Type VII 9772A
2	and Brakes Nose Wheel Tires (20 x 7.7)		9541334, 9560394 12 P.R., Type VII
	LANDING GEAR WHEEL, BRAKE, AND	D TTRE DESIGN WEIGHT	•
	MAIN GEAR	TITE SHOTAL HELWIT	•
	8 Wheels at 66,45 lb ea	• • • • • • • • • • • • • • • • • • • •	531.6 lb
	8 Brakes at 120.3 lb ea	\	962.4 1ъ
	8 Tires at 84.1 1b ea	(Tubeless)	
	NOSE GEAR		2,166.8 lb
	2 Wheels at 35.7 lb ea.		71.4 lb
	2 Brakes at 84.0 lb ea.		168.0 lb
	2 Tires at 33.8 lb ea (Tubeless)	
	The shove weights are the	go olioptod Con Ut	307,0 1b

The above weights are those allotted for the specific items noted. Any change requested by the Buyer that alters these weights will affect the airplane empty weight guarantee and be subject to negotiation.

CONVAIR

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APPINION I-U

Qty /	Description	Manufecturer	Part or Spec.
8	Main Jeo Shock Strut	Cleveland Pneum.	25, 9729
	Main Wheels	Boodyear	9541333 PD460
	Main Wheel Brakes	Goodyear	9560393 ED060
	Main Wheel Tires (39 x 13)	U. S. Rubber	20 P.R., Type
2	Nose Oleo Shock Strut	Cleveland Pneum.	VIII IP
	Nose Wheels	Goodyear	5K 9772
	Hose Wheel Tires (29 x 7.7)	'U. S. Rubber	954133h
1	Nose Wheel Brake	Goodyear	9560394 P18754

LANDING GEAR WHEEL. AND TIRE DESIGN WEIGHT:

8 Wheels at 66.45 lb ea

MAIN GRAR

8	Brakes 120.3	lb ea			•		962.4	11
8	Tires at 84.1 1	b ea ((Tubelest)	• 11 •			672.4	110

NOSE GEA

2	Wheels	at	35.7	lb	88	•	•	•	٠.	٠	4	•	٠		1.	71.4	10
2	Brakes	at	81:0	1b	82	a .	•	4	ä	ä	A		*	41		168.0	14

2/	Tires	at	33.8	lb	ea	(Tubeless).		*	*	ė.	*		307	0	10
----	-------	----	------	----	----	-------------	--	---	---	----	---	--	-----	---	----

The above weights are those allotted for the specific items noted. Any change requested by the Buyer that alters these weights will affect the airplane empty weight guarantee and be subject to negotiation.

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C O N V A I R
A BIVISION OF GENERAL DENAMICS CORPORATION
(BAN DIEGO)

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APPENDIX T-C

ALOUNG GEAL LOUIPHING

C. AVAI. FULLISHED - C. TVA

Qty			Fare of spec.
Tiedd.	Description	Manufactures	umber
2885	Main Vleo Shock Strut Main Wheels Main Wheel Brakes Main Wheel Tires (39 x 13)	Cleveland Pneum. Goodyear Goodyear U.S. Aubber	8K 9729 9541333 24600 9560393 11660 10 1 1798
1 2 2	Nose Oleo Shock Strut Nose Wheels Nose Wheel Tiles (29 x 7.7)	Cleveland Pneum. Goodyear W.S. Aubber	811 9772 9541334 PL 75 12 P
1.	Nose Wheel Brake	Goodyear	9500394 10075

LANDING GEAR WHEEL, BRAKE, AND TIRE DESIGN WEIGHT:

MAIN GEAR

Wheels &	65.2 1% es			521.6 lb
Brakes &	120.3 Ab ea			962.4 lb
Tires @	84. 1b ea	(Tubelest)		672.8 1b 2156.8 1b
GEAR				
Wheels @	15.7 lb ea			71.4 16
Brakes @	84.0 lb ea			168.0 lb
Tires	33.8 lb ea	(Tubeless)	\	67.6 lb
	Brakes @ GEAR Wheels @ Brakes @	Brakes & 120.3 1b ea Tires & 84.1 lb ea GEAR Wheels & 75.7 lb ea Brakes & 84.0 lb ea	Brakes @ 120.3 Ab ea	Tires @ 84.1 lb ea (Tubeles) GEAR Wheels @ 35.7 lb ea Brakes @ 84.0 lb ea

The above weights are those allotted for the specific items noted. Any change requested by the Buyer that alters these weights will affect the airplane empty weight guarantee and be subject to negotiation.

C O N V A I R A DIVISION OF GENERAL DYNAMICS COMPORATION BAN DIEGO

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MODEL 22
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Rev. 11-15-57

APPENDIX I - C

LANDING GEAR LOUIPHINT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Read	Description	Manufacturer	Part or Spec
2888	Main Oleo Shock Strut Main Wheels Main Wheel Brakes Main Wheel Tires (39 x 13)	Cleveland Pneum. Goodyear Goodyear U.S. Rubber	SK 9729 9541333 PD860 9560388 PD860 20 P.R., Type VII HP
1 2 2	Nose Oleo Shock Strut Nose Wheels Nose Wheel Tires (29 x 7.7)	Cleveland Pneum. Goodyear U.S. Rubber	SK9772 9541334 PD875 12 P.R., Type VII HP
1	Nose Wheel Brake	Goodyear	9560389 PD875

LANDING GEAR WHEEL, BRAKE, AND TIRE, DESIGN WEIGHT

MAIN GEAR

				- 600																
	8	Wheels	@	65.2	1b	ea	-	-	-	-	-	-	-	-	-	-	-		521.6 lb	
	8	Brakes	@	120.3	1b	ea	-	-	_	-	-	-	-	GH+	-	<u>.</u>	-		962.4 1b	
	8	Tires (Tubel			1b	e a	-	-	-	-	-	-	-	-	-	-	M.	-	672.8 1b 2156.8 lb	
MO	SI	E GEAR											N.							
	2	Wheels	@	35.7	1b	ea	-	-	-	-	-	-	-	4	_	_	-		71.4 1b	
	2	Brakes	@	84.0	1b	ea	_	_	_	-	-	-	-	-	+	-			168.0 lb	
	2	Tires (Tubel	(d)	33.8	1b	ea	-	-	-	-	-	-	_	-	-	-	-	_	67.6 lb	

The above weights are those allotted for the specific items noted. Any change requested by the Buyer that alters these weights will affect the airplane empty weight guarantee and be subject to negotiation.

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REVISED BY

C O N V A I R

REPORT NI ZD-22-003

2 . Lb

APPENDIX I-7

LANDING GEAR EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Regd	Description	Manufacturer	Fart or Spec Number
2	Main Oleo Shock Struts	1	
8 5	Main Wheel Brakes (12.50 x 16)	1	Type Ill
1 2	Nose Wheels	A CONTRACTOR OF THE PARTY OF TH	Type 111
1	Nose Wheel Tires (7.00 x 14) Nose Wheel Brake		

LANDING GEAR WHEEL, BRAKE, AND TIME, DESIGN WEIGHT

2 fires @ 35.0 Lb Ea - - -

(Tubeless)

MAIN GEAR

8 Wheels	Q 61.0	Lb Ea -	 the C Da
8 Brakes	@ 125.0	Lb Ea -	 1100.0 Lb
8 Tires	103.0	Lb Ea -	 824.0 Lb
(Tubel	88/		2317.0 Lb
NOSE GEAR			
2 Wheels	@ 25.0	Lb Ea -	 ye.a Lb
2 Brakes	@ 50.0	Lb Ea -	 100.0 Lb

The above weights are those allotted for the specific tems noted. Any change requested by the Buyer that alters these weights will affect the airplane empty weight guarantee and be subject to negotiation.

19B 22A

/19D /35B /142 /138E /19S /19F /19F /19H /19I

REPORT NOZD-22-003 Rev. 9-25-61

DATE 9-20-56

APPENDIX I-C

FURNISHINGS

			N.
Quan Reqd	Description	Manufacturer	Part or Spec. Number
*1 **1 **1 **1 ***1 ***1	Pilot Seat Copilot Seat Pilot Seat Copilot Seat Pilot Seat Copilot Seat Copilot Seat Flight Engineer's Seat Stewardess' Seats	Convair Convair Convair Convair Convair Convair Convair	22-98504-7 22-98504-8 22-98504-805 22-98504-806 30-98504-805 30-98504-803 22-98505-5 22-93513-1 22-93529-1
178781144 \$\sqrt{4}\$ \$\sqrt{4}\$ **1 ***4	Observer Seat Passenger Seats (Double I/H) Passenger Seats (Double I/H) Passenger Seats (Double R/H) Passenger Seats (Double R/H) Passenger Seat (Double-Special)L/H Passenger Seat (Double-Special)R/H Lounge Area Seats (Double) Lounge Area Seats (Double) Lounge Area Seat (Double) Pilot, Copilot, Flight Engineer, Observer Rotary Buckle and Crotch Straps	Convair	22-93503-801 22-98506-3 22-92501-805 22-92501-809 22-92501-810 22-92501-811 22-92501-812 22-93597-805 22-93597-805 22-93598-1 22-93598-1 22-93598-5 22-93598-807 1101115-0
2	Inertia Reels, Includes Shoulder Harness (Pilot and Copilot) Inertia Reel, Includes Shoulder Harness, Flight Engineer	Pac. Scientific Pac. Scientific	0101145-0
1	Observer's Shoulder Harness	Pac. Scientific	1101297-04
**	*Effective Ships 1 through 10 *Effective Ships 11 through 13 *Effective Ships 14 and on øEffective Ships 1 through 10 øEffective Ships 11 and on		

GONVAIR - BAN DIEGO CONVAIR DIVISION GD GENERAL DYNAMICS CORPORATION SAN DIEGO 12, GALIFORNIA

MODEL 22

DATE 9-20-56

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APPENDIX I-C

FURNISHINGS

			/	
	Quan			Part or Spec.
	Reqd	Description	Manufacturer	Number
: /2.00				oo official a
i/19B	1	Pilot Seat	Convair	22-98504-7
5/22A	1	Copilot Seat	Convair	22-98504-8
'/19D	1 1 3	Flight Engineer's Seat	Convair	22-98505-5
1/35B	3	Stewardess' Seats	Convair	22-93513-1
10/142				22-93529-1
11/138				22-93503-801
12/19E	1	Observer Seat	Convair	22-98506-3
15/193	7	Passenger Seats (Double L.H.	Convair	22-92501-805
17/197	Ŕ	Passenger Seats (Double L.H.	Convair	22-92501-809
22/190	7 8 7 8	Passenger Seats (Double R.H.	Convair	22-92501-806
8/228	6		Convair	22-92501-810
18/228A		Passenger Seats (Double R.H.	CONVALL	22-92501-010
25/19H	+	Passenger Seat (Double-Special)	Convair	22-92501-811
		L.H.	Convair	22-92501-011
	1	Passenger Seat (Double-Special)		00 00503 030
		R.H.	Convair	22-92501-812
	4	Lounge Area Seats (Double)	Convair	22-93597-805
4	4 1 1 4	Lounge Area Seat (Double)	Conyair	22-93552-1
	1	Lounge Area Seat (Double)	Convair	22-93598-1
	4	Pilot, Copilot, Flight Engineer,	Pac.	1101115-0
		Observer Rotary Buckle and	Scientific	
		Crotch Straps		
	2	Inertia Reels, Includes	Pac.	
		Shoulder Harness (Pilot and	Scientific	0101145-0
		Copilot)		
	1	Inertia Reel, Includes	Pac.	
	-	Shoulder Harness Flight	Scientific	0101146-0
		Engineer	DCTEHOTIZO	01011-10-0
	7	Observers Shoulder Harness	Pac.Scientific	1101207-04
	3	Stewardess Safety Belts and	100.DCTCHOILTC	1101291-04
	2		Convair	BN-1-1510-2
	84	Shoulder Harnesses	COHVAIL	DN-1-1710-2 .
	04	Passenger Seat Belts (with		
		Cumming - Saunders 3100A	Comment or	DM 3 3630 1
	_	gold anodized buckle)	Convair	BN-1-1510-1
	3	Wash basins, Valves and		00 00000 :
:		Hardware	Convair	22-93800
				(Fwd Lav)
				22-94800
		*		(Aft Lav)
	1	Toilet Tissue Dispenser	Convair	22-93803
				(Fwd Lav)
	1	Toilet Tissue Dispenser	Convair	22-94804-3
		•		(Aft Lav L/H)

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CONVAIR

A DIVISION OF GENERAL DYNAMICS COMPORATION

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APPENDIX I-C

FURNISHINGS

Quan Reqd	Description	Manufacturer	Part or Spec.
1 1 3	Pilot Seat Copilot Seat Flight Engineer's Seat Stewardess' Seats	Convair Convair Convair Convair	22-98504-7 22-98504-8 22-98505-5 22-93510-1 22-93510-1 22-93505
1 15 15 1	Observer Seat Passenger Seats (Double)L.H. Passenger Seats (Double)R.H. Passenger Seat (Double-	Convair Convair Convair	22-98506-3 22-92501-1 22-92501-2
1	Special) L.H. Passenger Seat (Double-	Convair	22-92501-3
4 1 1 4	Special) R.H. Lounge Area Seats (Double) Lounge Area Seat (Double) Lounge Area Seat (Double) Pilot, Copilot, Flight Engineer, Observer Rotary	Convair Convair Convair	22-92501-4 22=93597-805 22-93552-1 22-93598-1
2	Buckle and Crotch Straps Inertia Reels, Includes Shoulder Harness (Pilot	Pac. Scientific Pac. Scientific	0101115-0
. 1 _	and Copilot) Inertia Reel, Includes Shoulder Harness Flight Engineer	Pac. Scientific	0101146-0
3	Observers Shoulder Harness Stewardess Safety Belts and	Pac. Scientific	1101297-04
84	Shoulder Harnesses Passenger Seat Belts (with Cumming - Saunders 3100A	Convair	BN-1-1510-2
	gold anodized buckle)	Convair	BN-1-1510-1
3	Wash Basins, Valves and Hardware	Convair	22-93800 (Fwd Lav)
3	Toilet Tissue Diepensers	Convair	22-94800 (Aft Lav) 22-93803 (Fwd Lav)
3	Soap Dispensers - Cake Towel Dispenser Units (each consisting of three dispense	Convair	22-94805 (Aft Lav) 22-94806
	two universal for either lin or paper, and one for paper only)		

FORM 1018-A

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APPENDIX I-C

FURNISHINGS

Quan Regd	Description	Manufacturer	Part or Spec. Number
B 1	Pilot Seat	Convair	22-98504-1
1 1	Copilot Seat	Convair	22-98504-2
B 1 1 1 3 2 8 1 1	Flight Engineer's Seat	Convair	22-98505
	Stewardess' Seats	Convair	22-93513
	Doguarana Delaga		22-93503
6	X		22-93529
1	Observer Seat	Convair	22-98506
1 15	Passenger Seats (Double) L.H.	Convair	22-92501-1
15	Passenger Seats (houble) R.H.	Convair	22-92501-2
12	Passenger/Seat (Double-	00114077	- J-J-J-
1	Legacidat. Degr. (Dodnia-	Convair	22-92501-3
	Special) L.H.	OOMART	
1	Passenger Seat (Double-	Convair	22-92501-4
	Special) R.H.		22-32301-4
4	Club frea Seats (Double)	Convair	*.
1 4	Club Area Seat (Quadruple)		
4	Pilot, Copilot, Flight Engineer		
	Observer Rotary Buckle, In-		Page 1
	cluding Lap Belt and Crotch	To a Cod and die	1101115 0
	Streps	Pac. Scientific	1101112-0
2	Inertia Reels, Includes		
	Shoulder Harness (Pilot and	-	ererric o
f	(Copilot)	Pac. Scientific	0101145-0
.1 /	Inertia Reel, Includes	-	
- /-	Shoulder Harness Flight Engr.	Pac. Scientific	0101146-0
1/	Observers Shoulder Harness	Pac. Scientific	1101297-04
8A 3	Stewardess Seat Belts (with Cumming - Saunders 3100A	Convair	8K-22-91559
	gold anodized buckle) and	•	
<i>I</i>	shoulder harnesses.	Convert on	SK-22-91559
84	Passenger Seat Belts (with Cumming - Saunders 3100A gold anodised buckle)	Convair	BR-88-91939
1 2	Wash Basins, Valves and Hard-	4.	
,3	Agu pestus, Agraes our pord	Convair	22-93800(Fwd Lav 22-94800(Aft Lav
3	Toilet Tissue Dispensers	Çonvair	22-93805(Fwd Lav 22-94805(Aft Lav
3	Soap Dispensers - Cake Towel Dispenser Units (each	Convair	22-94806
	consisting of three dispenser two universal for either line	s; n	
	or paper, and one for paper only)		
*			

9B 2A 9D 5B 42 3E 93 .9F

CONVAIR

SAN DIEGO

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MODEL 22

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APPENDIX I-C

FURNISHINGS

1					
١	Quar				Part or Spec.
	Requ	1.	Description	Manufacturer	Number
ì	1	-	Pilot Seat	Convair	22-98504-1
	î		Copilot Seat	Convair	22-98504-2
	า		Flight Engineer's Seat	Convair	22-98505
	1		Stewardess' Seats	Convair	22-93513
			Document de De La Constitución d	OOMVALL	22-93503
					22-93529
	1		Observer Seat	Convair	22-98506
	15		Passenger Seats (Double) L.H.	Convair	22-92501-1
	15 15		Passenger Seats (Double) R.H.	Convair	22-92501-2
	1		Passenger Seat (Double-		
			Special) L.H.	Convair	22-92501-3
	1		Passenger Seat (Double-		
			Special) R.H.	Convair	22-92501-4
	4		Club Area Seats (Double)	Convair	
	1 4		Club Area Seat (Quadruple)		
	4		Pilot, Copilot, Flight Engineer,		
			Observer Rotary Buckle, In- cluding Lap Belt and Crotch		
			Straps	Pac. Scientif-	
			Gulaps	ic	1101115-0
	2		Inertia Reels, Includes		
			Shoulder Harness (Pilot and		
			Copilot)	Pac. Scientif-	
				ic	0101145-0
7	1		Inertia Reel, Includes		
			Shoulder Harness Flight Engr.	Pac. Scientif-	
,	2		St	ic	0101146-0
	3		Stewardess Safety Belts and Shoulder Harness		
	1		Observers Shoulder Harness	Pac. Scientif-	
			Opservers Bloutder Varuess	ic	1101297-04
	72		Passenger Safety Belts and	10	##0##J -01
	-		Crash Energy Absorbers		
ı	12		Passenger Safety Belts (Club		
			/ Area)		
1	3		Wash Basins, Valves and Hard-		
			ware	Convair	22-93800 (Fwd Lav)
					22-94800 (Aft Lav)
	3		Toilet Tissue Dispensers	Convair	22-93805 (Fwd Lav)
					22-94805(Aft Lav)
	3		Soap Dispensers - Cake	Convair	22-94806
	3		Towel Dispenser Units (each	Convair	
			consisting of three dispensers; two universal for either linen		
			or paper, and one for paper only)	=
			F-F-1 and and For babot outly		

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PAGE A-12 REPORT NO ZD-22-003 MODEL 22

BATT 9-20-56

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APPENDIX I-C

FURNISHINGS

i	Quan			Part or Spec.
	Read	Description	Manufacturar	Number
		Pilot Sept	Convair	22-98504-1
	1	Copilot Seat	Convair	22-98504-2
	1	Flight Engineer's Seat Stewardess Seats	Convair	22-98505
	3	Stewardess Seats	Conveir	22-93513
3				22-93503
				22-93504
		Observer Seat	Convair	22-98506
8		Passenger Seals (Double) L.H.	Convair	22-92501-1
	17	Passenger Seath (Double) R.H.	Convair	22-92501-2 22-92501-3
	1	Passenger Seat (Double-Special)L.H.	Convair	22-92501-4
	1	Passenger Seat (Nouble-Special)R.H.	Convair	22-72701-4
		Club Area Seats (Double) Club Area Seat (Quadruple)	COHVALL	
	14	Pilot, Copilot, Flight Engineer,	Pac.Scientific	1101115-0
		Observer Rotary Buckle, Includ-		
		ing Lap Belt and Crotch Straps		
	3	Inertia Reels Includes Shoulder	Pac.Scientific	0101145-0
	3	Harness (Pilot, Copilot and		
		Flight Engineer)		
	3	Stewardess Safety Belts and		
		Shoulder Harness		
	1	Observers Shoulder Harness	Pac.Scientific	1101297-0
	72	Passenger Safety Belts and Crash		
		Energy Absorbers		
	12	Passenger Safety Belts (Club Area)		00 00000(7 3 3)
	3	Wash Basins, Valves and Hardware	Convair	22-93800(Fwd lav)
			0	22-94800(Aft lav)
	3	Toilet Tissue Dispensers	Convair	22-93805(Fwd lav) 22-94805(Aft lav)
			Camero	22-94806 ALC 12V)
	3	Soap Dispensers - Cake	Convail	22-7-000
	3	Towel Dispenser Units (each con-		
		sisting of three dispensers;		
	-	two universal for either linen		
	2	or paper, and one for paper only) Cleansing Tissue Dispeners	Convair	2-93803(Fwd lav)
	3	oreamptiff manne nishemers	U Udd T Usmin	22-93803(Fwd lav) 22-94803 (Aft lav)
	3	Waste Containers	Convair	22-93604(Fwd lav)
	3	HOD OO COLLEGE D		22-94804 (Aft lav)
	1	Tank Assembly, Water	Convair	22-95400
	3	Lavatory Mirrors (Shatterproof)	Convair	22-92800(Fwd lav)
		7		22-94850(Aft lav)
		f		

CONVAIR PAGE A ... 2 ANALYSIS 20-122-00 SAN DEGO REPORT NO. PREPARED BY MODEL CHECKED BY DATE REVISED BY APPENDIK I-C FURNISHINGS CONVAIR FURNISHED - CONVAIR INSTALLED Part or Sper. Qt. Manufacturer Hemiles Read Description Pilots' Seats Flight Engineer's Seat PB 2A Stewardess' Seats 9D Observer Seat IIS IIS Passenger Seats (double Club Area Seats (double Club Area Seat (Quadrup) Pilots' Safety Belts and Shoulder Harnesses Flight Engineer's Safety Be and Shoulder Harness Inertia Reels (Pilot, Co-pilo and Flight Engineer) 3 Stewardess Safety Belts and Shoulder Harness Observers Safety Belt any Shoulder Harness 34 Passenger Safety Belts Was | Basing, Valves and Hardware Toilet Tissue Dispenders Soap Dispensers Sanitary Napkin Dispensers Towel Dispenser Utits (each consisting of three dispersers; two universal for either linen of paper, and one for paper only) Cleansing Tissie Dispensers 3334332 Waste Containers Ash Trays (levatory) 22- 5400 Tank Assemblf, Water Convair Lavatory Migrors (Shatterproof) Toilets, Disposal Tanks, & Hardware Buffet (2 whits each) #1 Conveir 22-93002 #2 & #3 22-93005 Convair 22-93009 Convair 2 Stewardess Switch Panel Electro Switch To be assign d 2 Stewardess Call Chimes AR Lavatory Assist Handles Lavatory Coat Hooks (Flush-type) Lavatory Signs "No Smoking-Return to Cabin" Lavatory "Occupied" Signs 本 "No Smoking - Fasten Seat Belts" Sign 1 Water System Pump Buffet Water Filters AR Nordskog Co. 5045D Coffee Makers, (115v ac) *Requirements listed under "Rlectrical System - Interior Lights"

CONVAIR PAGE A-12 ANALYSIS REPORT NO NAN BURGO PREPARED BY ZD-22-003 MODEL 22 CHECKED BY DATE 9-20-56 REVISED BY Rev. 10-15-58 APPENDIX I-C FURNISHINGS CONVAIR FURNISHED - CONVAIR INSTALLED Part or Spec. Qty Number Manufacturer Read Description Pilots' Seats 9B Flight Engineer's Seat 2A 31 9D Stewardess' Seats Observer Seat 5B Passenger Seats (double)
Lounge Seats (double) 40 2 Pilots' Safety Belts and 2 Shoulder Harnesses Flight Engineer's Safety Belt and Shoulder Harness 1 Inertia Reels (Pilot, Co-pilot 3 and Flight Engineer) Stewardess Safety Belts and 3 Shoulder Harness Observers Safety Belt and 1 Shoulder Harness Passenger Safety Belts 84 Wash Basins, Valves and Hardware 3 Toilet Tissue Dispensers Soap Dispensers Sanitary Napkin Dispensers Towel Dispenser Units (each consisting 42 of three dispensers; two universal for either linen or paper, and one for paper only) Cleansing Tisque Dispensers Waste Containers Ash Trays (lavatory) 22-95400 Convair Tank Assembly, Water Wash Basin Mirrors Toilets, Disposal Tanks, & Hardware Buffet (2 Junits each) #1 22-93002 Convair 22-93005 #2 & #3 Convair 22-93009 Convair Stewardess Switch Panel 2 Electro Switch To be assigned Stewardess Call Chimes 2 Lavatory Coat Hooks (Flush type) AR 3 Lavatory Signs "No Smoking-Return to Cabin" Lavatory "Occupied" Signs "No Smoking - Fasten Seat. Belts" Sign * Water System Pump 1 Buffet Water Filters AR Nordskog Co. Coffee Makers, (115v ac) 2 *Requirements listed under "Electrical System - Interior Lights"

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CONVAIR

A DIVISION OF GENERAL BYNAMICS CORPORATION

ISAN DIEGO)

PAGE A-12

REPORT NO. Z1-22-003

MODEL 22 MODEL 22 DATE 9-20-58

lev. 1-17-50

APPLIED IX I-C

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	CONVAIL FULNISHED - CCHVAIL INSTALLED				
	Qty	Description	Mnufacturer	Fart of Spec.	
BAAOB	2 1 3 1 40 2	Pilots' Seats Flight Lingineer's Seat Stewardess' Seats Observer Seat Passenger Seats (double) Lounge Seats (double) Pilots' Safety Belts and Shoulder Harnesses Fright Engineer's Safety Belt and Shoulder Harness Inertia Reels (Pilot, Co-pilot and Flight Engineer' Stewardess Safety Belts and Shoulder Harness Observers Safety Belts and Shoulder Harness Passenger Safety Belts Wash Basins, Valves and Hardware Toilet Tissue Dispensers Sanitary Napkin Dispensers Linen Towel Dispensers Cleansing Tissue Dispensers Waste Containers Ash Trays (lavatory) Tank Assembly, Water Wash Basin Mirrors Toilets, Disposal Tanks, & Hardware Buffet (2 units each) #1 #2 & #3 Stewardess Switch Panel Stewardess Call Chimes Lavatory Assist Handles Lavatory Assist Handles Lavatory Signs "No Smoking - Jeturn to Cabin" Lavatory "Occupied" Signs "No Smoking - Fasten Seat Felts" Sign Water System Pump Buffet Water Filters	Convair	22-95400 22-93002 22-93005 22-93009	
		*Requirements listed under "Cletri	cal System - Interi	lor Lights"	

SAN DIEGO

CONVAIR

A DIVISION OF GENERAL DYNAMICS CORPORATION

A DIVISION OF GENERAL DYNAMICS CORPORATION

REPORT NO. ZD-22-003

MODEL 22 DATE 9-20-56

Rev. 11-15-57

APPENDIX I - C

FURNISHINGS

	Quan Reqd	Description	Manufacturer	Part or Spec Number
PA DB	2131022 1 3 3 1 4 mmmmmmm1	Pilots' Seats Flight Engineer's Seat Stewardess' Seats Observer Seat Passenger Seats (Double) Lounge Seats (Double) Pilots' Safety Belts and Shoulder Harnesses Flight Engineer's Safety Belt and Shoulder Harness Inertia Reels (Pilot, Co-pilot and Flight Engineer) Stewardess Safety Belts and Shoulder Harnesses Observers Safety Belts and Shoulder Harnesses Observers Safety Belts Wash Basins, Valves and Hardware Toilet Tissue Dispensers Soap Dispensers Sanitary Napkin Dispensers Linen Towel Dispensers Cleansing Tissue Dispensers Waste Containers Ash Trays (lavatory) Potable Water Tank (50 gal. capacity, pressurized) Wash Basin Mirrors		
and the second second	3 1	Toilets, Disposal Tanks, and Hardward Buffet (4 Units) #1 #2 & #3 #4	Convair Convair Convair	22 - 93002 22 - 93005 22 - 93009
	2 2 AR 3 * * 1 AR	Stewardess Switch Panel Stewardess Call Chimes Lavatory Assist Handles - Lavatory Coat Hooks (Flush Type) - Lavatory Signs "No Smoking - Return to Cabin" Lavatory "Occupied" Signs - "No Smoking - Fasten Seat Belts" Sign Water System Pump Buffet Water Filters		
	* Re	equirements listed under "Electrical System - Interior Lights"		



CV CONVAR - SAN DIEGO CONVAR DIVIDIO GD GENERAL DYNAMICS CORPORATION

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REPORT NO. ZD-22-003

Rev. 9-25-61

MODEL 22 DATE 9-20-56

19G 19H 19I

APPENDLX I-C

FURNISHINGS

CONVAIR FURNISHED - CONVAIR INSTALLED

	an	Decemination	Manushahunan	Part or Spec.
Re	qd	Description	Manufacturer	Number
#	3	Stewardess Safety Belts and		
,,,,	2	Shoulder Harness	Autocrat	BN1-1510-2
##	3	Stewardess Safety Belts and Shoulder Harness	Cummins and Saunders	CV1013-2 and -3
#8	4	Passenger Seat Belts (with Cummins and Saunders 3100A gold anodized		
##8	211	buckle)	Autocraft Cummins and	BN1-1510-1
7777)4	Passenger Seat Belts (with gold anodized buckle)	Saunders	CV1013-1
	3	Wash Basins, Valves and Hardware	Convair	22-93800(Fwd Lav)
				22-94800(Aft Lav)
	1	Toilet Tissue Dispenser	Convair	22-94804-3 (Aft Lav L/H)
	1	Toilet Tissue Dispenser	Convair	22-94804-4
Н				(Aft Lav R/H)
	1	Soap Dispenser - Cake	Convair	22-94806-3 (Aft Lav L/H)
-	1	Soap Dispenser - Cake	Convair	22-94806-4
1				(Aft Lav R/H)
	1	Tank Assembly, Water	Convair	22-95400
	3	Lavatory Mirrors (Shatterproof)	Convair	22-92800(Fwd Lav) 22-94870-1 and -2 (Aft Lav)
	3	Waste Containers	Convair	22-93830-13
				(Fwd 1)
L	1	Passenger Seat (Double) with Food		22-94826 (Aft 2)
ł	_	Tray Receptacle L/H	Convair	22-92501-807
	1	Passenger Seat (Double) with Food		
		Tray Receptacle L/H	Convair	22-92501-813
	1	Passenger Seat (Double) with Food	Convair	22-92501-808
	1	Tray Receptacle R/H Passenger Seat (Double) with Food	Convair	22-32301-000
		Tray Receptacle R/H	Convair	22-92501-814

#Effective Ships 1 through 13 ##Effective Ships 14 and on



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FURNISHINGS

	Quan Reqd	Description	Manufacturer	Part or Spec. Number
/19 G /19H		Toilet Tissue Dispenser	Convair	22-94804-4 (Aft Lev)R/H
	2	Soap Dispensers - Cake	Convair	22-94806-3
		Soap Dispensers - Cake	Convair	22-94806-4
	1 3	Tank Assembly, Water Lavatory Mirrors	Convair	22-95400
	,	(Shatterproof)	Convair	22-92800 (Fwd
	3	Waste Containers	Convair	Lav) 22-94870-1 & -2 (Aft Lav) 22-93830-13 (Fwd 1) 22-94826 (Aft 2)
	1	Passenger Seat (Double) with Food Tray Receptacle	Conveir	22-92501-807
0.00	,	L/H	COUASTI	22-92301-001
	1	Passenger Seat (Double) with Food Tray Receptacle L/H	Convair	22-92501-813
	1	Passenger Seat (Double) with Food Tray Receptacle R/H	Convair	22-92501-808
	1	Passenger Seat (Double) with Food Tray Receptacle R/H	Convair	22-92501-814

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Quan Reqd	Description	Manufacturer	Part or Spec. Number
3	Cleansing Tissue Dispensers	Convair	22-93803 (Find lav) 22-94803 (Aft lav)
1	Tank Assembly, Water	Convair	22-95400
3	Lavatory Mirrors (Shatterproof)	Convair	22-92500 (Fwd lav) 22-94870-1 & -2 (Art lavs)
5	Passenger Seats (Double) with Food Tray Receptacle, I.H.		22-92501-5
2	Passenger Seats (Double) with Food	Convair	
3	Tray Receptacle, R.H. Waste Containers	Convair	22-92501-6 22-93830-13(Fwd 1) 22-94826 (Art 2)

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A DIVISION OF GENERAL DYNAMICS CORPORATION
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1 ENDIX I-C

FURNISHINDS

CONVAIR FURNIUHUD - CONVIR INSTITUT					
Quan Reqd	Description	Manufagourer	Pirt or Spec Number		
2	Filots' Seats				
2 1 3 1	Flight Engineer's Seat	1			
i	Stewardess' Seath Observer Seat	1			
40	Passenger Seats (Double)	f			
2 2	Lounge Sests (Doubla)				
2	Pilots' Safety Belts and Shoulder Harnesses				
1	Flight Engineer's Safet Balt				
	and Shoulder Harness				
3	Inertia Reels (Pilot, Co-pilot and Flight Engineer)				
3	. Stewardess Safety Belts and				
,	Shoulder Harnesses				
1	Chservers Safet Belt and Shoulder Harness				
84	Passenger Sagety Belts				
3	Wash Basins # Valves and				
3	Hardward Toilet Tissue Dispensers				
3	Soap Dispensers				
333333333333333333333333333333333333333	Sanitary Napkin Dispensers				
3	Linen Towel Dispensers				
3	Cleansing Tissue Dispensers Waste Containers				
	Ash Trays (lavatory)				
AR	Lavatory Water Tanks				
3	Wash Basin Mirrors Toilets, Disposal Tanks, and	1			
	Hardware				
1 2	Buffet (4 Units)	1			
2	Stewardess Switch Panel Stewardess Call Chimes				
AR	Lavatory Assist Handles		1		
3	Lavatory Cont Hooks (Flush Typ	e)	1		
P, C	Lavatory Signs "No Smoking - Return to Cabin"		1		
*	Lavatory "Cccupied" Si ms				
*	"No Smoking - Fasten seat Belt	s" Sign			

Requirements listed under "Electrical System - Interior Lights"

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Quan Reqd	Description	Manufacturer	Number
3	Cleansing Tissue Dispensers	Convair	22-93803 (Fwd lav)
3	Waste Containers	Convair	22-94803 (Aft lav) 22-93804 (Fwd lav) 22-94804 (Aft lav)
1	Tank Assembly, Water Lavatory Mirrors (Shatterproof)	Convair Convair	22-94004 (Art lav) 22-95400 22-92800 (Fwd lav)
2	Passenger Seats (Double) With	OOHVAII	22-94850 (Aft lav)
	food tray receptable, L.H.	Convair	22-92501-5
2	Passenger Seats (Double) With food tray receptacle, R.H.	Convair	22-92501-6

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FURNISHINGS

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
1 24	Toilet Tank and Hardware Toilet Tanks and Hardware Buffet #No. 1 #No. 2 #No. 2 #No. 3 #No. 3 **No. 4 \$\$No. 4	Convair Convair Convair Convair Convair Convair Convair Convair	22-93802 (Fwd Lav) 22-94802 (Aft Lav) 22-93002-1 22-93005-3 22-93005-801 22-93005-1 22-93009 22-93009
5 2	\$\$\$No. 4 Stewardess Switch Panels Stewardess Call Chimes	Convair Convair Electro	22-93009 -3 22-63300
332	Lavatory Assist Handles Lavatory Coat Hooks(Flush-Type) Lavatory Signs (Return to Cabin)	Switch Convair Hartwell Convair	3001-3 22-90920 H-148-1 22-93616 (Fwd)
3	Lavatory "Occupied Vacant" Signs (English and Spanish) "Fasten Seat Belts - No Smoking"	Convair	22-94603 (Aft) 22-94604 (2 Aft) 22-94606 (1 Fwd) 22-93603 (3 Cabin)
*1 2 2	Signs (English and Spanish) Water System Bump Buffet Water Filters	Cornelius Co.	22-94606 (1 Club)
1 1 2 2	Coffee Makers (200-volt, 3-phase 400-cycle, A/C 28v d-c) Airplane Check-Off List Spare Lamp Box Evacuation Slides (Noninflatable) Escape Chutes (Inflatable)	Nordskog Co. Convair Convair Hoover A/C Air Cruisers	5045E 22-91909-809 22-91930 CA-300
1 2	Flight Manual (FAA Approved) Pitot Tubes	Convair Kollsman	13D-12035 (1 pc) 13D-12036-1 (1 pc) A34110-00-003
2	Escape Ropes, Cabin Escape Ropes, Flight Compartment	Convair	22-93340-7 22-91302-1 and -2
# ## \$ \$\$	Effective Ships 1 through 10 Effective Ships 1 through 13 Effective Ships 1 through 10 Effective Ships 11 through 13 Effective Ships 2 through 7 Effective Ships 1, and 8 through 1 Effective Ships 11 through 13	0	

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FURNISHINGS

	Quan			Donk on One
	_	Description	Manufacturer	Part or Spec.
	1	Toilet Tank and Hardware	Convair	20 02000 (7-4 7-1)
	2	Toilet Tanks and Hardware		22-93802 (Fwd Lav)
В	4	Buffet No. 1	Convair	22-94802 (Aft Lav)
B		No. 2	Convair	22-93002
7A		No. 3	Convair	22-93005-3
5		No. 4	Convair	22-93005-1
) (%	2		Convair	22-93009
2₿	2	Stewardess Switch Panels	Convair	22-63300
	3	Stewardess Call Chimes	Electro Switch	
7	3	Lavatory Assist Handles	Convair	22-90920
rt trim	3	Lavatory Coat Hooks (Flush-		
2		Type)	Hartwell	H-148-1
	2	Lavatory Signs (Return to		
		Cabin ⁿ	Convair	22-93616 (Fwd)
				22-94603 (Aft)
	3	Lavatory "Occupied-Vacant"	Convair	22-94604 (2 Aft)
		Signs (English and Spanish)		22-94606 (1 Red)
	4	"Fasten Seat Belts - No Smok-	Convair	22-94604 (2 Aft) 22-94606 (1 Fwd) 22-93603 (3 cabin)
		ing" Signs (English and		22-94606 (1 club)
	3	Spanish)		== 34000 (1 C1db)
	*1	Water System Pump	Cornelius Co.	3730100
	2	Buffet Water Filters	Ogden	AC-2
	2	Coffee Makers (200-volt, 3-		
		phase, 400-cycle, A/C 28v		
V		d-c)	Nordskog Co.	5045B
	1	Airplane Check-Off List	Convair	22-91909-809
	1	Spare Lamp Box	Convair	22-91930
	2	Evacuation Slides (Noninflat-		
		able)	Hoover A/C	CA-300
	2	Escape Chutes (Inflatable)	Air Cruisers	13D-12035 (1 pc)
				13D-12036-1 (1 pc)
	1	Flight Manual (FAA Apprved)	Convair	13D-12030-1 (1 pc)
	2	Pitot Tubes	Kollsman	A34110-00-003
	2	Escape Ropes, Cabin		22-93340-7
	2	Escape Ropes, Flight Compart- ment		
	1	Assist Rope, Forward Main		22-91302-1 and 2
		Entrance	*	TIDE OFFICE
	1	Strap, Assist Rope, Forward		FDC-3750
		Main Entrance	22-92238	20 02020
	2	Stops, Escape Ropes, Flight	-E-JEEJU	22-92238
		Compartment		22. 022ho
	**]	Water System Pump	Calco	22-93342
			APTAA	C-7010A
		TRACE TO SECURE		
	74 24.54	Effective Ships 1 through 13.		
		Effective Ships 14 and on.		

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			Don't on Succe
Quan Reqd	Description	Manufacturer	Part or Spec.
1	Toilet Tank and Hardware	Convair	22-93802 (Fwd Lav)
2	Toilet Tanks and Hardware	Convair	22-94802 (Aft Lav)
- 4	Buffet No. 1	Convair	22-93002
. **	No. 2	Convair	22-93005-3
	No. 3	Convair	22-93005-1
	No. 4	Convair	22-93009
2	Stewardess Switch Panels	Convair	22-63300
2	Stewardess Call Chimes	Blectro Switc	
3	Lavatory Assist Handles	Convair	22-90920
2	Levatory Coat Hooks (Flush	VOIIVOLL	22-90920
3		Hartwell	H-148-1
2	Type) Lavatory Signs "Return to	Convair	22-93616 (Fwd)
2	Cabin"	Antiacra	22-94603 (Aft)
-	Lavatory "Occupied-Vacant"	Convair	22-94604 (2 Aft)
3	Signs (English and Spanish)	COMME	22-93606 (1 Fwd)
4	"Fasten Seat Belts - No Smoking"	Convair	22-93603 (3 cabin)
4	Signs (English and Spanish)	00,1022	22-94606 (1 club)
1	Water System Pump	Cornelius Co.	
2	Buffet Water Filters	Ogden	AC-2
2	Coffee Makers (220-volt, 3-	OB TOTAL	
-	phase, 400-cycle, A/¢ 28v		
	d-c)	Nordskog Co.	5045 K
1	Airplane Check-Off List	Convair	22-91909-809
ī	Spare Lamp Box	Convair	22-91930
2	Evacuation Slides (Noninflatable	e)Hoover A/C	ch-300
2	Escape Chutes (inflatable)	Air Cruisers	13D-12035 (1 pc)
			13D-12036-1 (1 pc)
1	Flight Manual (FAA Approved)	Convair	
2	Pitot Tubes	Kollsman	A34110-00-003
2	Escape Ropes, Cabin		22-93340-7
2	Escape Ropes, Flight Com-		
	partment		22-91302-1 and 2
1	Assist Rope, Forward Main		
	Entrance		FDC-3750
1	Strap, Assist Rope, Forward		
	Main Entrance		22-92238
2	Stops, Escape Ropes, Flight		an anaka
	Compartment		22-93342

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Quan Regd	Description	Manufacturer	Part or Spec. Number
124	Toilet Tank and Hardware Toilet Tanks and Hardware Buffet No. 1 No. 2 No. 3 No. 4 Stewardess Switch Panels Stewardess Call Chimes Lavatory Assist Handles	Convair Convair Convair Convair Convair Convair Electro Switch Convair	22-93802 (Fwd Lav) 22-94802 (Aft Lav) 22-93002 22-93005-3 22-93005-1 22-93009 22-63300 3001-3 22-90920
3 3 4	Lavatory Coat Hooks (Flush- Type) Lavatory Signs "Return to Cabih" Lavatory "Occupied-Vacant" Signs (English and Spanish) "Fasten Seat Belts - No Smok- ing" Signs (English and	Hartwell Convair Convair	H-148-1 22-93616 (Fwd) 22-94603 (Aft) 22-94604 (2 Aft) 22-93606 (1 Fwd) 22-93603 (3 cabin) 22-94606 (1 club)
1 2 2	Spanish) Water System Pump Buffet Water Filters Coffee Makers (220-volt, 3- phase, 400-cycle, A/C 28v	Cornelius Co. Ogden	3730100 AC-2
1 1 2	d-c) Airplane Check-Off List Spare Lamp Box Evacuation Slides (Nonin- flatable)	Nordskog Co. Convair Convair Hoover A/C Air Cruisers	5045E 22-91909-5 22-91930 CA-300
1 2 2 2	Escape Chutes (inflatable) Flight Manual (FAA Approved) Pitot Tubes Escape Ropes, Cabin Escape Ropes, Flight Com-	Convair Kollsman	13D-12035 (1 pc) 13D-12036-1 (1 pc) A34110-00-003 22-93340-7
1	partment Assist Rope, Forward Main Entrance Strap, Assit Rope, Forward		22-91302-1 and 2 FDC-3750
2	Main Entrance Stops, Escape Ropes, Flight Compartment		22-92238 22-93342

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Quan. Reqd.	Description	Manufacturer .	Part or Spec. Number
1	Toilet Tank and Hardware	Convair	22-93802(Fwd Lav)
1 0	Toilet Tanks and Hardware	Convair	22-94802(Aft Lav)
2 4	Buffet No. 1	Convair	22-93002
	No. 2	Convair	22-93005-3
	No. 3	Convair	22-93005-1
/	No. 4	Convair	22-93009
2	Stewardess Switch Panels	Convair	22-63300
2	Stewardess Call Chimes	Electro Switch	
3	Lavatory Assist Handles	Convair	22-90920
2 3 3	Lavatory Coat Hooks (Flush-		
	Type)	Hartwell	H-148-1
2	Lavatory Signs "Return to		
_	Cabin"	Convair	22-93616 (Fwd)
	0.00.00.00	- 11	22-94603 (Aft)
3	Lavatory "Occupied-Vacant"	Convair	
J	Signs (English and		22-94604 (2 Aft) 22-93606 (1 Fwd)
	Spanish		
4	"Fasten Seat Belts - No		
	Smoking" Signs (English	Convair	22-93603 (3 cabi
	and Spanish)		22-94606 (1 club
1	Water System Pump	Cornelius Co.	3730100
2	Buffet/Water Filters	Ogden	AC-2
2	Coffee Makers (220-volt,	08-011	,
-	3-phase, 400-cycle, A/C		,
	28 v d-c)	Nordskog Co.	5045 B
1	Airplane Check-Off List	Convair	22-91909
i	Spare Lamp Box	Convair	22-91930
2	Evacuation Slides (non-	00111411	7-3-33
-	inflatable)	Hoover A/C	CA-300
2	Escape Chutes (inflatable)	Air Cruisers	13D-12035 (1 pc)
-	Bacape viidoes (IIII Idoabie)	7.22 92 0.00	13D-12036 (1 pc)
1	Flight Manual (FAA Approved)	Convair	#32 ##030 (m po)
2	Pitot Tubes	Aero Research	H-7007-3 L.H.
-	Proof Tabes	7010 100001	H-7007-4 R.H.
2	Escape Ropes, Cabin	•	; ;
2	Escape Ropes, Flight Compartme	nt	
2 2	Assist Rope, Forward Main Entr	ance .	
i	Strap, Assist Rope, Forward Ma	in	
1		**************************************	
2	* Stops, Escape Ropes, Flight		
	Compartment		

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Quan Reqd.	Description	Manufacturer	Part or Spec. Number
12 6 1 23 1 2 2 1 6 1	Pilots' Door Lock and Key Cabin Temperature Thermometer (Mercury) Emergency Lights Sanitary Napkin Dispenser Sanitary Napkin Dispenser Ash Trays (Lavatory) Toilet Shroud Toilet Shroud Entrance Compt. Switch Panels Airplane Log Book Holder Static Pressure Ports Static Pressure Port	Adams Rite Kahl Scientific Luminator Convair Convair Convair Convair Convair	2028 Type CV30255 L-14477 (4 pcs) L-14476 (2 pcs) 22-93805 (Fwd Lav) 22-94803 (Aft Lav) 22-09554 22-93816 (Fwd) 22-94809 (Aft)

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Quan. Reqd.	Description	Manufacturer	Part or Spec. Number
1 2 4	Toilet Tank and Hardware Toilet Tanks and Hardware Buffet No. 1 No. 2 No. 3	Convair Convair Convair Convair Convair	22-93802 (Fwd Lav) 22-94802 (Aft Lav) 22-93002 22-93005-3 22-93005-1
2 2 3 3	No. 3 No. 4 Stewardess Switch Panels Stewardess Call Chimes Lavatory Assist Handles Lavatory Coat Hooks (Flush-	Convair Convair Electro Switch Convair	22-93009 22-63300 3001-3 22-90920
2	Type) Lavatory Signs "Return to	Hartwell	H-148-1
2	Cabin"	Convair	22-93616 (Fwd) 22-94603 (Aft)
3	Lavatory "Occupied-Vacant" Signs (English and Spanish)	Convair	22-94604 (2 Aft) 22-93606 (1 Fwd)
4	"Fasten Seat Belts - No Smoking" Signs (English and Spanish)	Convair	22-93603 (3 cabin) 22-94606 (1 club)
1 2 2	Water System Pump Buffet Water Filters Coffee Makers (220-volt,	Cornelius Co. Ogden	3730100 AC-2
	3-phase, 400-cycle, A/C 28v d-c)	Nordskog Co.	5045E
1	Airplane Check-Off List Spare Lamp Box	Convair Convair	22-91909 22-91930
2	Evacuation Slides (non- inflatable)	Hoover A/C	CA-300
2	Escape Chutes (inflatable)	Air Cruisers	13D-12035 (1 pc) 13D-12036 (1 pc)
1	Flight Manual (FAA Approved) Maintenance and Operating Manual	Convair Convair	
2	Pitot Tubes	Aero Research	H-7007-3 L.H. H-7007-4 R.H

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PURNISHINGS

1					
1		Qty			Part or Spec.
4		Read	Description	Manufacturer	fumber
1				1 2.	00 00000/7 3 7
1	070	1	Toilet Tank and Hardware	Convair	22-93802(Fwd lav)
	9B	2	Toilet Penks and Hardware	Convair	22-94802(Aft lav)
ř	9E	4	Buffet No. 1	Convair	22-93002
÷	67A		No. 3	Convair Convair	22-93005-3 22-93005-1
1			No. 4	Convair	22-93009
		2	Stewardess Switch Panels	Convair	22-63300
		22332		- Electro Switch	
		3	Lavatory Assist Hundles	Convair	22-90913
		3	Lavatory Coat Hooks (Flush-type)	Hartwell	H-148-1
1		2		Convair	22-93616 (Fwd)
И					22-94603 (Aft)
1	00	3	Lavatory "Occupied-Valent" Signs	Convair	22-94604 (2 Aft)
4			(English and Spanish)		22-93606 (1 Fwd)
1		4	"Fasten Seat Belts No Smoking"		22-93603(3 Cabin)
1		F .	Signs (English and Spanish)	Convair	22-94606 (1 Club)
		1	Water System Pump	Cornelius Co.	
1		2 2	Buffet Water Filters	Ogden	AC-2
		4	Coffee Makers (200-volt, 3-ph/se,	Nordskog Co.	5045E
١		1	400-cycle, A/C 28 v d-c) Airplane Check Off List	Convair	22-91909
1		1 1	Spare Lamp Box	Convair	22-91930
		2	Escape Chutes (Non-inflatable)	OCHVALL	/ / / / / / / / /
1		2 2	Escape Chutes (Inflatable)	Ar Cruisers	13D-12054 (1 pc)
1					13D-12055 (1 pc)
J		1	Flight Manyal (CAA Approved)	Convar	
		1	Maintenance and Operating Manual	Convair	
1		2	Pitot Tubes	Aero Reserch	H-7007-1 L.II.
1					H-7007-2 R.H.
1		1	Pilots Door Lock and Key	Adams Rite	2028 Type
ı		2	Cabin Temperature Thermometers	Taylor Instru.	to be assigned
		6	(Mercury)	Luminator	L-1477 (4 pes)
1		0	Emergency Lights	\raming cor	L-144 6 (2 pcs)
		1	Sanitary Napkin Dispenser	Convair	22-93805 (Fwd lav)
		2	Sanitary Napkin Dispenser	Convair	22-94805(Act lav)
		3	Ash Trays (Lavatory)	Convair	22-09554
		Ĭ	Toilet Shroud	Convair	22-93801 (Fwd)
		2312216	Toilet Shroud	Convair	22-94801 (Aft)
		2	Entrance Compt. Switch Panels		
		1	Arplane Log Book Holder		
			Static Pressure Ports		
1		1	Static Pressure Port (Alternate)		

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CONVAIR FURNISHED - CONVAIR INSTALLED

INSTRUMENTS AND RELATED EQUIPMENT (Cont)

Quan Reqd	Description	Manufacturer	Part or Spec. No.
	ENGINE INSTRUMENTS - GENERAL		
4	Indicator, Tachometer Indicator, Exhaust Gas Temperature	Gen. Elec. Gen. Elec.	8DJ81CAB-1 8DJ100AAA1
4 4 4	Indicator, Thrust Units, Thrust Measuring Indicator, Tachometer (Fan)		
	ENGINE INSTRUMENTS - FUEL SYSTEM		
4 1 2	Indicator, Fuel Flow Indicator Fuel Temperature Indicator, Fuel Quantity Counter Pointer Type	Gen. Elec. Lewis Simmonds	8DJ97GAA-1 162C24 383O53- 05581
2	Tanks 1 and 4 Indicator, Fuel Quantity Counter Point Type	Simmonds	383053 - 05582
2	Tanks 2 and 3 Indicator, Fuel Quantity Tanks 1 and 4	Simmonds	383093 01582
2	Indicator, Fuel Quantity Tanks 2 and 3	Simmonds	383093 01581
4 8	Transmitter, Fuel Flow Switch, Main Fuel Pump Pressure	Gen. Elec. Aero Inst.	8TJ59GAD-1 1B2599-9
1	Indicator, Fuel Quantity Counter-Pointer Type Center Section Tank	Simmonds	

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FURTISHINGS

CONVAIR FURNISHED - CONVAIR IP STALLED

	CONVENT POSECTORES CONVENT TOTALISME					
	Qty Rend	Description	Manu acturer	Part or Spec Number		
19B 19E		Toilet Tank and Hardware Toilet Tanks and Hardware Buffet No. 1 No. 2 No. 3	Convair Convair Convair Convair Convair	22-93002(Fwd lav) 22-94002(Aft lav) 22-93002 22-93005-3 22-93005-1		
	2 2 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Stewardess Switch Panels Stewardess Call Chimes Lavatory Assist Handles Lavatory Coat Hooks (Flush-type) Lavatory Signs "Return to Cabin"	Convair Convair Electro Switch Convair Hartwell	22-93009 22-63300 To be assigned 22-90913 H-140-1 22-93616 (Fud)		
	3 4	Lavatory "Occupied" Signs "No Smoking" - "Fasten Seat	Convair	22-94603 (Aft) 22-94604 (2 Aft) 22-93606 (1 Fwd) 22-93603 (3 Cabin)		
	1221122	Belt" Signs Water System Pump Buffet Water Filters Coffee Makers (115v ac) Airplane Chack-Off List Spare Lamp Oox	Cornelius Co. Ogden Nordskog Co. Convair Convair	22-94606 (1 club) 3730100 AC-2 5045E 22-91909 22-91930		
		Escape Chates (non-inflatable) Escape Chates (inflatable) Flight Manual (CAA Approved)	Air Cruisers Convair	13D-12054 (1 pc) 13D-12055 (1 pc)		
	12	Pilots' Door Tock and Key Cabin Temperature Thermometers	Convair Aero Research Adams Rive Taylor Instr.	H-7007-1 L.H. H-7007-2 R.H. 2028 Type To be assigned		
	6	(Mercury) Emergency Lights	Luminator	1-14477 (4 pcs) 1-14476 (2 pcs)		
1	2 2 1 6 1	Sanitary Mapkin Dispenser Sanitary Mapkin Dispenser Ash Trays (Lavatory) Toilet Shroud Toilet Shroud Entrance Compt. Switch Panels Airplane Log Look Holder Static Pressure Ports Static Pressure Port (Alternate)	Convair Convair Convair Convair	22-93505 (Fud lav) 22-94:05-(Aft lav) 22-09554 22-93:01 (Fwd) 22-94:01 (Aft)		

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FURNISH INGS

CONVAIR FURNISHED - CONVAIR INSTALLED

Part or Spec Quan Manufacturer Number Description Read Airplane Check-Off List Spare Lamp Box Entrance Compartment Switch Panels 122211126116 Escape Chutes (non-inflatable)
Escape Chutes (inflatable)
Airplane Log Rook Holder
Flight Manual (CAA Approved) Maintenance and Operating Manual Pitot Heads / Static Pressure Ports Static Pressure Port (Alternate) Pilots' Door Lock and Key Emergency Lights Cabin Temperature Thermometers - Taylor Instr. To be assigned (Mercury)

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FURNISHINGS

Quan			Part or Spec
Reqd	Description	Manufacturer	Number .
		4	
1	Airplant Check-Off List	F	
1	Spare Lamo Box		
2	Entrance Compartment Switch	1	
	Panels		
2	Bacape Chures (non-inflatable)		
2	Escape Chunes (inflatable)		
1	Airplane Lok Book Holder		
1	Flight Manual (CAA Approved)		
1	Maintenance and Operating		
	Manual		
2	Pitot Heads		
6	Static Fressure Ports		
1	Static Pressure Port (Alternate)		
1	Filots' Door Lock and Key		
6	Emergency Lights		
2	Cabin Temperature Mermometers (N	fercury)	

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FURNISHINGS

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
1	Assist Rope, Forward Main Entrance		FDC-3750
1	Strap, Assist Rope, Forward Main Entrance	Convair	92238
2	Stops, Escape Ropes, Flight Compartment	Convair	22-93342
**1	Water System Pump Pilots' Door Lock and Key	Calco Adams Rite	C-7010A 2029-4CK994
6	Cabin Temperature Thermometer (Mercury) Emergency Lights	Kahl Scientific Luminator	CV30255 L-14477 (4 pcs) L-14476 (2 pcs)
*3 **3 1 2 2	Ash Trays (Lavatory) Ash Trays (Lavatory) Toilet Shroud Toilet Shroud Entrance Compartment Switch	Adams Rite Benbow Convair Convair	2140-3-1 10311-6 22-93816 (Fwd) 22-94808 (Aft)
1 6 1	Panels Airplane Log Book Holder Static Pressure Ports Cabinet Dispenser - Fwd Lav. Consisting of:	Convair Convair	22-90409 22-93803-1
1	1 Cleansing Tissue Dispenser 2 Universal Dispenser (Linen or Paper) 1 Dispenser - Paper Towels 1 Soap Dispenser Cabinet Dispenser - Fwd Lav. Consisting of: 1 Sanitary Napkin Dispenser 1 Air Sickness Bag Dispenser 1 Toilet Tissue Dispenser	Convair	22-928 3 9

*Effective Ships 1 through 10

**Effective Ships 11 and on

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FURNISHINGS

	Quan Reqd	Description	Manufacturer	Part or Spec.
O H	1 2	Pilots' Door Lock and Key Cabin Temperature Thermometer	Adams Rite Kahl	2028-4CK994
	6	(Mercury) Emergency Lights	Scientific Luminator	CV30255 L-14477 (4 pcs) L-14476 (2 pcs)
	3	Ash Trays (Lavatory) Toilet Shroud Toilet Shroud	Adams Rite Convair Convair	2140-3-1 22-93816 (Fwd) 22-94808 (Aft)
	3122161	Entrance Compt. Switch Panels Airplane Log Book Holder		
	6	Static Pressure Ports Cabinet Dispenser - Fwd Lav. Consisting of:	Convair Convair	22-90409 22-93803-1
		Consisting of: 1 Cleansing Tissue Dispenser 2 Universal Dispenser (Linen or Paper) 1 Dispenser - Paper Towels 1 Soap Dispenser		
	1	Cabinet Dispenser Fwd Lav Consisting of: 1 Sanitary Napkin Dispenser 1 Air Sickness Bags Dispenser 1 Toilet Tissue Dispenser	Convair	22-92839
	1	Cabinet Dispenser Aft Lav. Consisting of: 1 Air Sickness Bags Dispenser 2 Universal Dispensers (Linen	Convair	22-94803-1
		or Paper) l Dispenser-Paper Towels l Cleansing Tissue Dispenser l Sanitary Napkin Dispenser		
	1	Cabinet Dispenser - Aft Lav. Consisting of: 1 Air Sickness Bag Dispenser 2 Universal Dispensers (Linen or Paper)	Convair	22-94804-1
		l Dispenser - Paper Towels l Cleaning Tissue Dispenser l Sanitary Napkin Dispenser		



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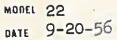
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FURNISHINGS

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
1 2 6	Pilots Door Lock and Key Cabin Temperature Thermom- eter (Mercury) Emergency Lights	Adams Rite Kahl Scientific Luminator	2028-4CK994 CV30255 L-14477 (4 pcs) L-14476 (2 pcs)
123122	Sanitary Napkin Dispenser Sanitary Napkin Dispenser Ash Trays (Lavatory) Toilet Shroud Toilet Shroud Entrance Compt. Switch Panels	Convair Convair Adams Rite Convair Convair	22-93803 (Fwd Lav) 22-94803 (Aft Lav) 2140-3-1 22-93816 (Fwd) 22-94808 (Aft)
6	Airplane Log Book Holder Static Pressure Ports	Convair	22-90409

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PRESSURIZATION, ANTI-ICING AND AIR CONDITIONING EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

ı	Quan Reqd	Description	Manufacturer	Part or Spec. Number
	0000011100100 \$55**********************************	ATM Driven Cabin Compressors Primary Heat Exchangers Freon Compressors Freon Condensers Freon Evaporators Recirculation Blower (Cabin Air) Recirculation Blower (Cabin Air) Recirculation Blower (Cabin Air) Condenser Blowers Condenser Blowers Controller, Cabin Pressure Valves, Outflow Compressor Recirculation	Ham. Standard Airesearch Airesearch	568650 545814 561254 550281 552268 545751-C 568715 573972 550842 556079 102290-3 103182-4
	2	Valves Heat Exchanger Cooling Air	Ham. Standard	535457
	2	Shutoff Valves Condenser Cooling Air Shutoff	Nam. Standard	548331
	ø6 øø6	Valves Anti-Icing Pressure Regulators Anti-Icing Pressure Regulators	Ham. Standard AiResearch AiResearch	569952 108594-130-2 108594-130-3

*P/N 550842 Ships 7 and 11

**P/N 556079 Retro-Fit

ø Effective Ships 1 through 13
øø Effective Ships 14 and on
\$ Effective Ships 1 through 10
\$\$ Effective Ships 11 through 13
\$\$\$ Effective Ships 14 and on

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PRESSURIZATION, ANTI-ICING AND AIR CONDITIONING EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec.
2	ATM Driven Cabin Compressors	Ham. Standard	550150
2 2 2 2 1	Primary Heat Exchangers	Ham. Standard	รมรดิวัน
2	Freen Compressors	Ham, Standard	
2	Freen Condensers	Ham. Standard	
2	Freen Evaporators	Ham. Standard	
1	Recirculation Blower (Cabin \	man, business	7,2200
	Air)	Ham. Standard	545751-C
*2	Condenser Blowers	Ham. Standard	
**2	Condenser Blowers	Ham. Standard	556079
1 2 2	Controller, Cabin Pressure	AiResearch	102290-3
2	Valves, Outflow	AiResearch	103182-4
2	Compressor Recirculation		
0	Valves	Ham. Standard	535457
2	Heat Exchanger Cooling Air Shutoff Valves	Ham. Standard	548331
2	Condenser Cooling Air Shut- off Valves	Ham. Standard	
6	Anti-Icing Pressure Regulators	AiResearch	
_	Towns I represe Helentanols	WTWGDeg LOH	100594-130-2

*P/N 550842 Ships 7 and 11 **P/N 556079 Retro-Fit

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APPENDIX I-C

PRESSURIZATION, ANTI-ICING AND AIR CONDITIONING EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

_	Quan			Part or Spec.
ı	Read	Description	Manufacturer /	Number
		ATM Driven Cabin Compressors Primary Heat Exchangers Freon Compressors Freon Condensers Freon Evaporators Recirculation Blower (Cabin	Ham. Standard Ham. Standard Ham. Standard Ham. Standard Ham. Standard	550150 545814 5 60333 550281 55 2268
		Air) Condenser Blowers Condenser Blowers Cabin Pressure Regulators	Ham. Standard Ham. Standard Ham. Standard	545751-c 550842 556079
	2	and Safety Relief Valves Compressor Recirculation	AiResearch	103182-4
	2	Valves Heat Exchanger Cooling Air	Ham. Standard	535457
	2	Shutoff Valves Condenser Cooling Air Shut-	Ham. Standard	548331
	6	off Valves Anti-Icing Pressure Regulators	Ham. Standard AlResearch	548333 108594-130-2

*P/N 550842 Ships 7 and 11 **P/N 556079 Retro-Fit

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PRESSURIZATION, ANTI-ICING AND AIR CONDITIONING EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd.	Description	Manufacturer	Part or Spec. Number
2	ATM Driven Cabin Compressors	Ham: Standard	553350
2 2 2 1	Primary Heat Exchangers	Ham: Standard	545814
2	Freon Compressors	Ham. Standard	
2	Freon Condensers	Ham. Standard	
2	Freon Evaporators	Ham: Standard	
1	Recirculation Blower (Cabin		
	Air)	Ham: Standard	545751
2	Condenser Blowers	Ham. Standard	
2	Cabin Pressure Regulators		
	and Safety Relief Valves	AiResearch	103182-850-3
2	Compressor Recirculation		
2	Heat Exchanger Cooling Air		
	Shutoff Valves	Ham: Standard	548331
2	Condenser Cooling Air Shutoff		
8.77	Valves	Ham. Standard	522197
AR	Anti-Icing Pressure Regulators	AiResearch	108594-130

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PRESSURIZATION, ANTI-ICING AND AIR CONDITIONING EQUIPMENT

			/		
į	Juan		Manu	facturer	Part or Spec.
	Reqd	Depositheron	V.5/12.9.4v	the state of the second	TANK THE PERSON NAMED IN
O PA	2	ATM Driven Cabin Compressors Primary Helt Exchangers	Ham.	Standard Standard	322193
		Fren Complessors	Halil .	Standard	Decorat
	2	Freon Condensers	Ham.	Standard	255055
	2	Freon Evaporators	Ham.	Standard	522194
85		Recirculation Blower (cabin air)	Ham.	Standard	545751
الريد ك		Condenser Blowers	Ham.	Standard	522827
				esearch	
		Cabin Pressure Regulators			
	2	Cabin Air Safety Valves		esearch	
	2	B pass Valves	Ham.	. Standard	
	2	Compressor Recirculation Valves	Ham.	Standard	522840
	2	Heat Exchanger Cooling Air Shutoff			
		Valves	Ham.	. Standard	522818
	5	Condenser Cooling Air Shutoff			
		Valves	Ham.	. Standard	522197
	AR	Anti-Icing Pressure Regulators	AiRe	esearch	

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APPENDIX I-C

CONVAIR FURNISHED - CONVAIR INSTALLED

INSTRUMENTS AND RELATED EQUIPMENT (Cont)

Quan Reqd	Description	Manufacturer	Part or Spec. No.
	ENGINE INSTRUMENTS - OIL SYSTEM		
4 4 4 4 4	Indicator, Oil Quantity Indicator, Oil Pressure Indicator, Oil Temperature Transmitter, Oil Quantity Switch, Oil Low Pressure	Simmonds U.S. Gauge Lewis Simmonds Hyd. Elec.	SR-04B 162C23
4 4 4	Warning Transmitter, Oil Pressure Bulb, Temperature Oil Indicator, Oil Quantity (at pod)	U.S. Gauge Lewis	S71D4M 56B17
	AUTO PILOT (SPERRY TYPE SP-30)		
1 1 1 3 3 4 2 1	Automatic Pilot/Controller Stabilization Computer Flight Control Computer Automatic Pilot Indicator Gain Calibrator Servo Bracket Servo Drive Linear Accelerometer Linear Accelerometer Vertical Gyro	Sperry	1776001-1* 1776002-3 1776003-1 1776004-1 1776710-03 615144-01 615743-03 615794-1 615794-2 617926-1

^{*}Controller layout shall be similar to Bendix panel 16906, for location of controls.

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COLVAIR FURNISHED - CONVAIR INSTRIBL

keqd Reqd	Description Man	nufschirer	Part or Spec
2	ATM Driven Cadin Compressors	1	
2	Primary Heat Exchangers	A. C.	
2	Freon Compressors Freon Condensers		
2	Freon Evaporators		
2	Recirculation Blower (cabin 1r) Condenser Blowers		
2	Cabin Pressure Regulators		
2	Cabin Air Safety Valves		
2	Bypass Valves Compressor Recirculation Valves		
2	Heat Exchanger Cooling Air Shutoff		
2	Valves Condenser Cooling Mir Shutoff Valves		
AR	Anti-Icing Pressure Regulators		
2	Air Flow Transmitters Engine Bleed Air Pressure Regulator		
	Valves Valves		

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OXYGEN EQUIPMENT

Quan Reqd	Description	Manufacturer	Part or Spec. Number
2	Automatic Passenger Valve with		
	Manual Override	Alar	5870-100
3	Smoke Mask	Scott	6849-9
1	Portable 02 Cylinder Assy (11- cubic foot) (Crew compart-		
	ment)	Scott	6080-3
3	(7-cubic foot) (Passenger compartment) with Scott "KS" masks, Scott 8611 60-Inch		
	hose and ARO 0674-AlO nipple)	Scott	5530
3	Regulators (Crew diluter-demand		
	type)	ARO Equipt. Corp.	14950-8
1 1	Pressure Reducer	Alar	5758
1	Line Valve	Robbins	ov -601 ·

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OXYGEN EQUIPMENT

-	Quan Reqd	Description	Manufacturer	Part or Spec. Number
	2	Automatic Passenger Valve		
	2	with Manual Override	Alar	5870-100
	3	Smoke Mask	Scott	6849-9
	1	Portable 02 Cylinder Assy		
		(ll-cubic foot) (Crew com- partment)	Scott	6080-3
	3	Portable 0 Cylinder Assem-		
		blies, (7-cubic foot)		
		(Passenger compartment) with Scott "KS" masks,		
1		Scott 8611 60-9nch hose		
		and ARO 0674-AlO nipple	Scott	5530
	3:	Regulators (Crew diluter	Aro Equipt. Corp.	14950-8
-	3	demand-type) High Pressure Oxygen Cylin-	Are Equipe. Corp.	14990-0
í		der and Valve Assembly		
i		(107-cubic foot) including	Walter Walde on	9000lu
		pressure gauge	Walter Kidde or Zep Aero	890941 ZC-268-111
	1	Pressure Reducer	Alar	5758
	1	Line Valve	Robbins	ov-601

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OXYGEN EQUIPMENT

Quan Reqd	Description	Manufacturer	Part or Spec. Number
2	Automatic Passenger Valve		1
3	with Manual Override Smoke Masks	Alar Scott	5870-100 6849-9
1	Portable 02 Cylinder Assy. (11-cubic foot) (Crew	*	
3	compartment) Portable O2 Cylinder Assem-	Scott	6080-3L
	blies, (7-cubid foot)		
	(Passenger compartment) with Scott "KS" masks,		
	Scott 8611 60-Inch hose and ARO 0674-A10 nipple	Scott	5530
3	Regulators (Crew diluter- demand-type)	Aro Equipt. Corp.	14950-8
3	High Pressure Oxygen Cylin- der and Valve Assembly	o adarbo. oorp.	1-1990-0
	(107-cubic foot) includ-		Occupa
	ing pressure gauge	Walter Kidde or Sep Aero	890941 ZC-268-111
1	Pressure Reducer Line Valve	Alar Robbins	5758 0V-601
			0, 001

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OXYGEN EQUIPMENT

Q	ty ead	Description	Nanu acturer	Part or Spec.
		Automatic Passenger Valve with	Aler	5870-100
	3	Smoke Hasks Fortable O2 Cylinder Assy. (11-cubic foot) (Crew Compartment)	Scott	6080 –3 I
	3	rortable 02 Cylinder Assemblies, (7-cubic foot) (Passenger Compart- ment) with Scott "IS" masks, Scott 8611 60-inch hose and ARO 0674-A10	Scott	5500-1 Aï
	3	nipple. Regulators (Crew diluter-demand-type) High Pressure Oxygen Cyl & Velve Assy (107-cubic foot)	Marrer vrode	.14950=8 890941 20-265-111
	2 2 1 1 1	Pressure Gage Pressure Reducer Check Valve, Style B Check Valve, Style D Line Valve	Robbins	AN 6015-2 AN 6017-1 OV-601

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APPENDIX I-C

OXYGEN EQUIPMENT

Qty Read	Description	Manufacturer	Part or Spec.
AR	Regulators (Passenger continuous		
	flow type)		
1	Automatic Passenger Valve with		
	Manual Override		
AR	Outlets		
3	Smoke Masks. Portable 0 Sylinder Assy.	Scott	6080-3L
7	(11-cubic foot) (Crew Compartmen		0000-00
3	Portable On Cylinder Assemblies.	Scott	5500-1 AB
	(7-cubic foot) (Passenger Compar	t-	
	ment with Scott "KS" masks. Bco	tt	
	8611 60-inch hose and ARO 0674-A	10	
	nipple.		
3	Regulators (Crew diluter-demand		
3	type) High Pressure Oxygen Cyl & Valve	Walter Kidde	890941
2	(107 cu. ft)	or Zep Aero	C-262-107
2	Pressure Gage		
2	Pressure Reducer		
1	Check Valve, Style B		AN 6015-2
1	Check Valve, Style D		AN 6017-1
1	Line Valve	Robbins	ov-601

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CONVAIR

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CONVAIL FULNISHED - CONVAIR XUSTALLES

Qty Part or Spac. Description ead anufacturer Tumber All Regulators (Passenger continuous flow type) Automatic Passenger Valve with Manual Override All Outlets 32 Smoke Masks Air-Pac-Portable (Crev com partment) Portable 02 (310 liter) 3 negulators (Crew diluter demand 3 type) 2 pr Asbestos Gloves High Pressure Oxygen Cyl. & Valve Walter Kidde (107 cu. ft) or Zep Aero 890941 or Zep Aero C-262-107 Pressure Gage 2 Pressure Reducer Check Valve, Style B Check Valve, Style D Line Valve AN 6015-2 AN 6017-1 ppins 0V-601

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OXYGEN LOUIPMENT

	CONVAIR FURNISHED - CONVAIR INCUALANT				
	Quan Read	Description	Manufacturer	Part or Spec Number	
iΑ	AR	Regulators (Passenger Continuous Flow Type			
	1	Automatic Passenger Valve with Manual Override			
	3	Outlets Smoke Masks Air Pae Portable (Crew compartment	+)-	•	
	3	Portable 02 (310 Liter) and Miles Regulators (Crew Diluter-Demand T	ype)		
	/ # Pr.	High Pressure Oxygen Cylinder (107 cu. ft each)	gage		
	2 2	Pressure Gage Pressure Reducer Check Valve			
	1	Line Valve			

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OXYGEN E UITMENT

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Luan				fart or Spec
Read	Description		Manufacturer	Number
1		d Vent Valve	and the same of th	
.AR		(Passenger Continuo	9	
	Flow Tyr			
1		assenger Valve with		
	Manual C	merride /		
NR.	Outlets V			
1	Oxygen Conv	erter		
1	Quantity Ga	ige /		
3	Smoke Masks	No.		
2	Air-Pac-Por	table (Crow compartme	ent)	
1	/Filler Valv			
3	Portable 0;			
2		(Crew Diluter-Demand	Trend)	
2			13 be)	
2	Fr. Asbestos Gl	Over		

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PYROTECHNICS

Quan		/	Part or Spec.			
Reqd	Description		Manufacturer	Number		
2	Flares	- 37.0 lb	Kilgore Mfg.	Wiley Type SA-8		
1	Flare Container	- 13.0 (b	Convair	22-98301-1 and 2		

CONVAIR PAGE A-16 ANALYSIS REPORT NO. ZD-22-003 PREPARED BY SAN DIEGO CHECKED BY WODEL SS DATE 9-20-56 REVISED BY Rev. 9-25-59 APPENDIX /I-C PYROTECANICS CONVAIR FURNISHED /- CONVAIR INSTALLED Quan Part or Spec. Description Reqd Manufacturer Number 2 Flares)C - 37.0 lb Kilgore Mfg. Wiley Type SA-8 \mathbf{F} Flare Containers 13.0 1b 2

ANALYSIS PREPARED BY CHECKED BY REVISED BY

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A DIVISION OF GENERAL DYNAMICS CORPORATION
SAN DIEGO

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REPORT NO. ZD-22-003

MODEL 22 DATE 9-20-56

Rev. 11-15-57

APPENDIX I - C

PYROTECHNICS

	CONVAIR FURNISHED - CONVAIR INSTANCED					
	Quan Read	Description		Manufacturer	Part or Spec	
19 C	2	Flares	37.0 Lb	Kilgore Mfg.	Wiley Type SA-8	
	2	Flare Containers	13.0 Lb	1	SA-8	

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APPENDIX I-C

PYROTECHNICS

CONVAIR FURNISHED - CONVAIR IN

Quan Regd	Description	1	Manufacturer	Part or Spec Number
2	Plares Flare Containers	37.0 Lb	Wiley	SA-8

CHECKED BY REVISED BY

9E 9F 84

BAN DIEGO

REPORT NO. ZD-22-003 MODEL 22

DATE 9-20-56 Rev. 3-21-60

APPENDIX I-C

PNEUMATIC EQUIPMENT

Quan Reqd	Description	Manufacturer	Part or Spec. Number
2	Emergency Bake Valve	Walter Kidde	891071
1	Bottle and Drain Fitting, Pneumatic,	Walter Kidde	891545

ANALYSIS PREPARED BY CHECKED BY REVISED BY

CONVAIR

SAN DIEGO

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MODEL 22

891071

DATE 9-20-56

Rev. 9-25-59

AFPENDIX I-C

PNEUMATIC EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Walter Kidde

Quan Part or Spec. Reqd Description ManyTacturer Number 2

Emergency Brake Valves

)正)F

CONVAIR PAGE A-17 ANALYSIS REPORT NO. ZD-22-003 PREPARED BY SAN DIEGO MODEL 22 CHECKED BY DATE 9-20-56 REVISED BY Rev. 1-20-59 APPENDIX I-PNEUMATIC EQUIPMENT CONVAIR INSTALLED CONVAIR FURNISHED . Part or Spec. Quan Reqd Number Manufacturer Description P/N to be supplied Emergency Air Storage Flasks 2 W.Kidde Co. 891071 Emergency Brake Valves

L9E

ANALYSIS
PREPARED BY
CHECKED BY
REVISED BY

C O N V A I R A DIVISION OF GENERAL TYNANICS CORPORATION SAN DISECT

APPENDIX I-C

PNEUM TIG E CIPMENT

CONV.IR FURNISHED - COMVIEW IN THIED

Quan Redd	Description	Manufacturer	Tunt r Spec
2	Emergency Air Storage Plasks		m/ to be
2	Selector Valves		supplied

ANALYSIS
PREPARÉD BY
CHECKED BY
REVISED BY

CONVAIR

SAN DIEGO

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Rev. 9-25-59

APPENDIX I-C

FIRE EXTINGUISHING EQUIPMENT

	Quan Reqd	Description	Manufacturer	Part or Spec. Number
136 19E ′19E	4 4 1 3 AR	Containers Double Check Tees Portable CO ₂ Bottle (5-1b) Portable Water Bottles Fire Detectors (Single Loop System)	Walter Kidde Walter Kidde Walter Kidde Walter Kidde Fenwall	891154 891050 870906 890275

ANALYSIS
PREPARÉD BY
CHECKED BY
REVISED BY

CONVAIR

SAN DIEGO

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MODEL 22

DATE 9-20-56

Rev. 1-20-59

APPENDIX I-C

FIRE EXTINGUISHING EQUIPMENT

Quan Read	Description	Manufacturer	Part or Spec. Number
L36 4 L9E 4	Containers Double Check Tees Portable CO ₂ Bottle (5-1b)	Walter Kidde Walter Kidde Walter Kidde	891154 891050 870906
3 4 AR	Portable Water Pottles Fire & Overheat Detector Panels Fire Detectors	Walter Kidde	890275

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CONVAIR

PAGE Alo REPORT NO 7D-22-003 MODEL 22

DATE 20 ept 56

APPENDIX I-C

FIRE EXTINGUISHING EQUIPMENT

Quan Reqd	Description Manufa	Part or Spec
AR	Containers	
AR AR	Double Check Tees	
AAT 1	Portable CO2 Bottle (5 lb)	•
2		
<i>J</i>	Portable Water Bottles / Fire & Overheat Detector Panels /	
AR	Fire Detectors	

CONVAIR PAGE A18 ANALYSIS NAME DITTO REPORT NO. ZD-22-003 PREPARED BY MODEL 22 CHECKED BY DATE 20 Sept 56 REVISED BY Rev. 10-15-58 APPENDIX I-C FIRE EXTINGUISHING EQUIPMENT CONVAIR FURNISHED + CONVAIR INSTALLED Part or Spec. Quan Manufacturer Number Description Read Containers
Double Check Tees
Portable CO₂ Bottle
(5 lb) Walter Kidde Walter Kidde 891154 4 891050 4 136 1 (5 lb)
Portable Vater Bottles Fire & Overheat Detector Panels Fire Detectors AR

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Quan

C O Nº V A I R

PAGE A18 REPORT NO ZD-22-003 MODEL 22 DATE 20 Sept 56

APPENDIX I-C

FIRE EXTINGUISHING EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Read Description Manufacturer WALLET ATT U containers 献上 Dooble Check Tees Directional Valvas Portable CO₂ Bottle (5 lb) AR-1 Portable Water Bottles Fire & Overheat Detector Panels Fire Detectors

Part or Spec Number 891154(22.02929

891050 /22-0243

FORM FFIZ A

C O N V A I R A DIVIDION OF GENERAL DYNAMICS CHAPDRATICS BAN DIEGO

REPORT NO

H-3 ZD-22-003 PAGE 22 9-20-56 MODEL. DATE

				-
			1	
Parlament Ttom	No. Man	March	Blapsed	
Redlacement Item	No. Men	Manhours	Time	
Hydraulic Pump	1	•5	15	
Engine Dil Tank (partitioned		-/	1.	
tanks)	-	-	A	
Constant Spaed Drive Oil Tanks			#	
(partitioned tank)	-	- /	-	
Fuel Flow Meter	1	.5	•5	
Engine Fuel Consrol	ī	6.0	.6	
Engine Mounted Fuel Pump	ï	H	.4	
Engine Oil Pressure Transmitter	1	1.2	.2	
Engine Ignition Box Engine Ignitor Plug	1	.2	.2	
Tailpipe Temperature Probe	Ţ	.2	•2	
Tailpipe Pressure Proje	1 4	.2	.2	
Engine Anti-ice Valve	1 1	.5	• 4	-
Engine Fuel/Oil Cooler	1	.3	ું ર્વ	
Fuel Pressurizing Valve	1 /	•3	•5 •3 •3	
Pressure Ratio Transducer	H.	•5 •3 •3	•5	
Fuel Shut-Off Valve	Az i	2	-	
Fuel Quantity Probe	9 -	•5	• 5	
Fuel Boost Pump	1	1.0	1.0	
Fuel Tank Pressure Regulator	1	•3	•3	
Fuel Tank Drain Valve	1	.2	.2	
Engine Temperature Amplifier	1 2			
Engine Oil Filter	1	•3	•3	
Engine Pressurizing Valve	Z	•3 •3 •3	•3	
Variable Stator Actuator	1	1.0	1.0	
Tachometer Generator	1	•3	•3	
Variable Stator Hydraelic Pump	1 1	•3	•3	
Engine Lube Pump	1	•3 •3 •3	•3	
Engine Rear Gear Box Scavenge Pu	mm 1	3	• 5	
Engine Transfer Gear Box Scaveng	9	1 .3	•3	
Louis A	1	1 .3	.3	
Starter Shut-Off Valve	1	1.3	•3	
Fuel Strainer	1	5	•5	
Bleed Air Heat Exchanger	1	• 3	•3 •3 •5 •3	
Auto-Pilot Amplifiers or Control	_	.3/	•5	
Unit	1	.2	•2	
<i>[</i>		1	12	
- 3			L.	